

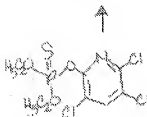
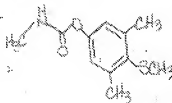
Title of Invention: Active Compound Combination Having Insecticidal Properties  
 Inventors (please provide full names): Christoph Frank, Reinhold Fritsch, Rüdiger Fritsch, Frank Heike  
Hundelberg, Wilfried Anderson, Wolfgang Thielert, Anton Kraus  
 Earliest Priority Date: 12/04/2003

## Search Topic

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the stated species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Subsequent Searches Only\* Please include all pertinent information (parent, child, divisional, or serial process numbers) along with the appropriate serial number.

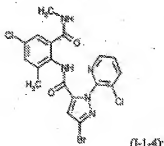
Chlorpyrifos, methidathion  
 (A)(2-2) (B)(3-5)



RECEIVED  
 MAY -6 2008  
 STN

Additional keywords: pesticides, extractors, surfactants

(a) A compound of formula (I), represented by the compound 1-1-4, and having the following structure:



(1-1-4)

=> fil hcplus

FILE 'HCAPLUS' ENTERED AT 17:26:47 ON 14 MAY 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is

strictly prohibited.

FILE COVERS 1907 - 14 May 2008 VOL 148 ISS 20  
FILE LAST UPDATED: 13 May 2008 (20080513/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

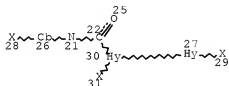
This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=>

=>

=> d stat que 123

L1 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY AT 26

GGCAT IS MCY AT 27

GGCAT IS MCY AT 30

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L2 705 SEA FILE=REGISTRY SSS FUL L1

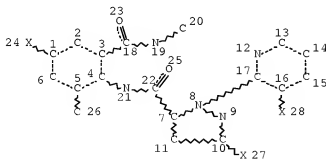
L5 105 SEA FILE=REGISTRY ABB=ON PLU=ON CHLORPYRIFOS/BI

L6 14 SEA FILE=REGISTRY ABB=ON PLU=ON METHIOCARB/BI

L8 11745 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ?CHLORPYRIF?

L9 1404 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 OR ?METHIOCARB?

L20 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L21 170 SEA FILE=REGISTRY SUB=L2 SSS FUL L20

L22 164 SEA FILE=HCAPLUS ABB=ON PLU=ON L21

L23 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND L8 AND L9

=> d ibib abs hitstr l23 1-8

L23 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 2008:352700 HCAPLUS Full-text

DOCUMENT NUMBER: 148:324710

TITLE: Synergistic pesticide mixtures comprising sulfonamides

INVENTOR(S): Von Deyn, Wolfgang; Langewald, Juergen; Pohlman, Matthias; Kaiser, Florian; Anspaugh, Douglas D.; Van Tuyt Cotter, Henry; Armes, Nigel

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 45pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

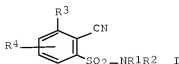
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008031712	A2	20080320	WO 2007-EP58857	20070827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2006-843606P P 20060911

OTHER SOURCE(S): MARPAT 148:324710

GI



AB The invention relates to synergistic pesticidal mixts. comprising a sulfonamide derivative I (R1 = H or Me; R2 = H, Me, Et or propargyl; R3 = Cl, MeO or difluoromethoxy; R4 a= H or F) and one or more compds. selected from acetylcholine esterase inhibitors, GABA-gated chloride channel antagonists, sodium channel modulators, nicotinic acetylcholine receptor agonists/antagonists, chloride channel activators, juvenile hormone mimics, compds. affecting oxidative phosphorylation, inhibitors of the chitin biosynthesis, molting disruptors, inhibitors of the mitochondrial electron transport, voltage-dependent sodium channel blockers, inhibitors of lipid synthesis, etc. The invention relates further to use of these mixts. for combating insects, arachnids or nematodes in and on plants, and for protecting such plants being infested with pests, especially for protecting seeds. The preparation of N-ethyl-2-cyano-4-fluoro-3-methoxybenzenesulfonamide is given.

IT 1010413-77-0

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic pesticide)

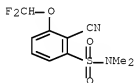
RN 1010413-77-0 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

CM 1

CRN 889097-30-7

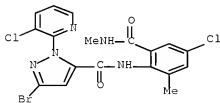
CMF C10 H10 F2 N2 O3 S



CM 2

CRN 500008-45-7

CMF C18 H14 Br Cl2 N5 O2



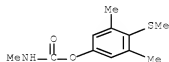
IT 2932-65-7D, Metbilocarb, mixts. with sulfonamide derivs.  
2921-68-2D, Chlorpyrifos, mixts. with sulfonamide  
derivs. 5596-13-0D, Chlorpyrifosmethyl, mixts. with  
sulfonamide derivs. 56908-45-7D, Chlorantraniliprole, mixts.  
with sulfonamide derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(synergistic pesticides)

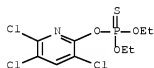
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



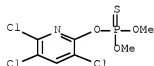
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



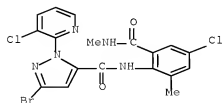
RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

L23 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2008:219057 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 148:278294  
TITLE: Preventing crystallization by encapsulating active materials with modified urea-formaldehyde polymer  
INVENTOR(S): Nelson, Alan; Cush, Sarah; Hopkinson, Michael; Lo, Chien-Cho; Moore, Carolyn  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
SOURCE: PCT Int. Appl., 24pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008021800	A2	20080221	WO 2007-US75310	20070807
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2006-822425P P 20060815

AB A method for delaying or preventing crystallization of materials such as pesticides uses a microencapsulation process. In particular, droplets of a solution of an active material which is substantially insol. in aqueous conditions are encapsulated with a film formed from a modified urea-formaldehyde polymer to provide stability against crystallization. Thus, an aqueous solution containing sodium alkylnaphthalenesulfonate and naphthalenesulfonic acid-formaldehyde polymer sodium salt was prepared, and the pH was then lowered to <2.0 with concentrated sulfuric acid. A saturated organic solution was prepared by mixing the fungicide propiconazole and 2-methylnaphthalene, raising the temperature, then cooling and adding Cymel U-1050-10 Resin (a solution of a partially butylated urea-formaldehyde prepolymer with a degree of butylation of 70-90 %). The organic solution was added to the aqueous solution, and the agitation rate was increased to obtain emulsion droplets with an average particle size between 2 and 20 µm. The mixture was then heated for three hours under gentle agitation, heating was discontinued, and the pH was raised to 9 with ammonium hydroxide to obtain a concentrated pesticide formulation.

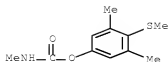
IT 2032-65-7, Methiocarb 2921-88-2, Chloropyrifos

5598-13-0 500006-45-7, Rynaxypyr

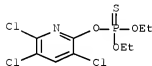
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(preventing crystallization of active materials such as pesticides by microencapsulation with etherified urea-formaldehyde polymer)

RN 2032-65-7 HCAPLUS

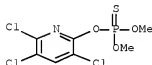
CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



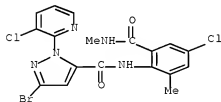
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

L23 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:43357 HCAPLUS Full-text

DOCUMENT NUMBER: 148:114881

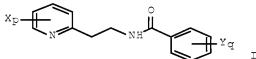
TITLE: Pesticidal composition comprising a pyridylethylbenzamide derivative and an insecticide  
 Hungenberg, Heike; Labourdette, Gilbert; Schirring, Albert; Schuetz, Burkhard; Suty-Heinze, Anne; Thielert, Wolfgang; Vaupel, Martin

INVENTOR(S):

PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany  
 SOURCE: PCT Int. Appl., 52pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

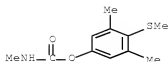
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008003738	A1	20080110	WO 2007-EP56796	20070705
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: EP 2006-356084 A 20060706  
 OTHER SOURCE(S): MARPAT 148:114881  
 GI

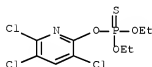


- AB A pesticidal composition comprises at least (a) a pyridylethylbenzamide derivative (I; p = 1-4 integer; q = 1-5 integer; each X = independently halo, (halo)alkyl; each Y = independently halo, alkyl, alkenyl, alkoxy, NH2, phenoxy, CN, etc.) and (b) an insecticide compound in an (a)/(b) weight ratio from 1/1000 to 1000/1. The composition may comprise an addnl. fungicidal compound A method for preventively or curatively combating the pests and diseases of crops uses this composition. Thus, a mixture containing N-{2-[3-chloro-5-(trifluoromethyl)-2-pyridinylethyl]-2-trifluoromethylbenzamide and fipronil at 200 + 100 ppm showed a synergistic effect against cotton aphid (Aphis gossypii) on heavily infested cotton (Gossypium herbaceum) leaves, with 85% insect mortality after 1 day.
- IT 2032-65-7D, Methiocarb, mixts. with pyridylethylbenzamides 2931-88-2D, Chlorpyrifos, mixts. with pyridylethylbenzamides 500608-45-7D, Rynaxypyr, mixts. with pyridylethylbenzamides  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (synergistic pesticidal compns. comprising pyridylethylbenzamides and insecticides)
- RN 2032-65-7 HCAPLUS
- CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)

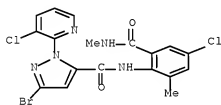




RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

L23 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:88339 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 146:178834

TITLE: Synergistic pesticidal mixtures with  
nitrogen-containing componentINVENTOR(S): Hughes, David John; Peace, James Edward; Riley,  
Suzanna; Russell, Sally; Swanborough, Joseph John;  
Jeanguenat, Andre; Renold, Peter; Hall, Roger Graham;  
Loiseleur, Olivier; Trah, Stephan; Wenger, Jean  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta  
Limited

SOURCE: PCT Int. Appl., 261pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

WO 2007009661	A2	20070125	WO 2006-EP6866	20060713
WO 2007009661	A3	20070329		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

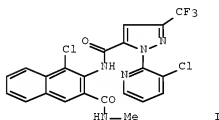
GB 2005-14652

A 20050715

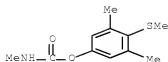
OTHER SOURCE(S):

MARPAT 146:178834

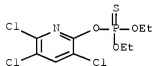
GI



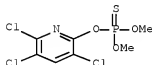
- AB Pesticidal compns. comprise mixts. consisting of N-containing compds. (e.g., I) and 21 compound selected from acaricides, anthelmintics, avicides, bactericides, biol. agents, chemosterilants, insect repellents, insecticides, etc. The compns. are applied to pests or their environment for controlling insects or representatives of the order Acarina. Also claimed is plant propagation material treated with such a composition and treatment of the site where the propagation material is planted. Thus, young soybean plants were sprayed with an aqueous emulsion comprising 400 ppm of active ingredient mixture of the invention, populated with 10 *Spodoptera littoralis* caterpillars (in the third stage), then placed in a container. Evaluation after 3 days showed that the mixture exhibited good activity.
- IT 2032-65-7D, Methiocarb, mixts. containing 2921-88-2D  
 , Chloropyrifos, mixts. containing 5598-13-0D, mixts. containing 5598-52-7D, Fospirate, mixts. containing 500008-45-7D, DKI 0001, mixts. containing  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (as synergistic pesticides)
- RN 2032-65-7 HCAPLUS
- CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



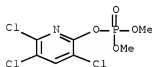
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

RN 5598-13-0 HCAPLUS

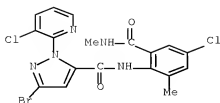
CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

RN 5598-52-7 HCAPLUS

CN Phosphoric acid, dimethyl 3,5,6-trichloro-2-pyridinyl ester (CA INDEX  
NAME)

RN 500008-45-7 HCAPLUS

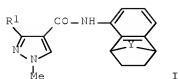
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



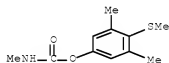
L23 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:343598 HCAPLUS Full-text  
 DOCUMENT NUMBER: 144:364543  
 TITLE: Synergistic fungicidal compositions comprising pyrazole derivatives  
 INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrenfreund, Josef; Lamberth, Clemens; Tobler, Hans  
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.  
 SOURCE: PCT Int. Appl., 142 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037632	A1	20060413	WO 2005-EP10755	20051006
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM AU 2005291423 A1 20060413 AU 2005-291423 20051006 CA 2580245 A1 20060413 CA 2005-2580245 20051006 EP 1802198 A1 20070704 EP 2005-798443 20051006 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU CN 101035432 A 20070912 CN 2005-80034254 20051006 IN 2007DN02069 A 20070817 IN 2007-DN2069 20070316 NO 2007001611 A 20070702 NO 2007-1611 20070327 US 20070244121 A1 20071018 US 2007-576719 20070405 US 20070265267 A1 20071115 US 2007-696908 20070405 KR 2007102478 A 20071018 KR 2007-707997 20070406 GB 2004-22401 A 20041008 WO 2005-EP10755 W 20051006 US 2007-576719 A2 20070405				
PRIORITY APPLN. INFO.:				

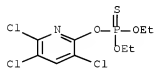
OTHER SOURCE(S): MARPAT 144:364543  
 GI



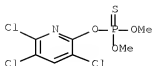
- AB Synergistic fungicidal comps. comprise a pyrazole derivative I (R1 = difluoromethyl or trifluoromethyl; Y = CHR2 or C:CH2; R2 = H or alkyl) or a I tautomer and component any of a very large number of known fungicides and insecticides.
- IT 2032-65-7D, Methiocarb, mixts. with pyrazole derivs.  
 2921-88-2D, Chlorpyrifos, mixts. with pyrazole derivs.  
 5598-13-0D, mixts. with pyrazole derivs. 500008-29-7D,  
 mixts. with pyrazole derivs. 500008-44-6D, mixts. with pyrazole  
 derivs. 500008-45-7D, mixts. with pyrazole derivs.  
 500008-56-9D, mixts. with pyrazole derivs. 500008-60-6D,  
 mixts. with pyrazole derivs. 500008-62-8D, mixts. with pyrazole  
 derivs. 500008-66-2D, mixts. with pyrazole derivs.  
 500008-67-3D, mixts. with pyrazole derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal comps.)
- RN 2032-65-7 HCAPLUS
- CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



- RN 2921-88-2 HCAPLUS
- CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)

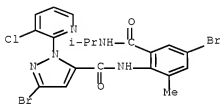


- RN 5598-13-0 HCAPLUS
- CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



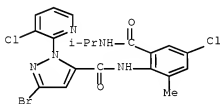
RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



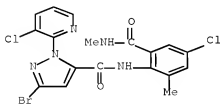
RN 500008-44-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



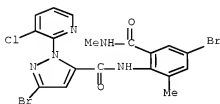
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



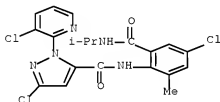
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



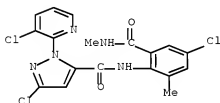
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



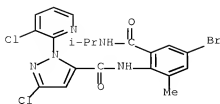
RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

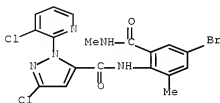


RN 500008-66-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-67-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-  
 [(methylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA  
 INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:343286 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 144:364542  
 TITLE: Synergistic fungicidal compositions comprising a  
 pyridine derivative  
 INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrendfreund, Josef;  
 Lamberth, Clemens; Tobler, Hans  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
 SOURCE: PCT Int. Appl., 112 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037633	A1	20060413	WO 2005-EP10756	20051006
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,				



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

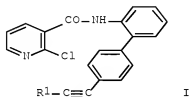
GB 2004-22399

A 20041008

OTHER SOURCE(S):

MARPAT 144:364542

GI



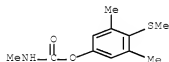
AB A method of controlling phytopathogenic diseases on useful plants or on plant propagation material comprises applying a pyridine derivative I (R1 = alkyl, alkoxyalkyl or haloalkyl) or a I tautomer, in a mixts. with any of a very large number of known fungicides and/or insecticides.

IT 2032-65-7D, Methiocarb, mixts. with pyridine derivs.  
2921-88-2D, Chlorpyrifos, mixts. with pyridine derivs.  
5598-13-0D, mixts. with pyridine derivs. 500008-29-7D,  
mixts. with pyridine derivs. 500008-44-6D, mixts. with pyridine  
derivs. 500008-45-7D, mixts. with pyridine derivs.  
500008-56-0D, mixts. with pyridine derivs. 500008-60-6D,  
mixts. with pyridine derivs. 500008-62-8D, mixts. with pyridine  
derivs. 500008-66-2D, mixts. with pyridine derivs.  
500008-67-3D, mixts. with pyridine derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal compns.)

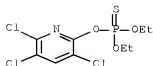
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX  
NAME)

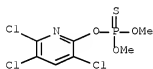


RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

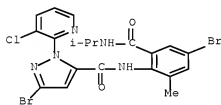


RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

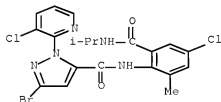
RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[[1-(methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



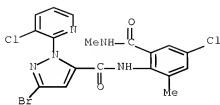
RN 500008-44-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[1-(methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



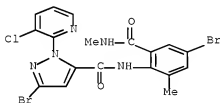
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



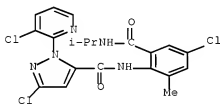
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



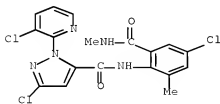
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

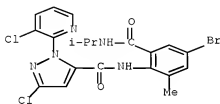


RN 500008-62-8 HCAPLUS

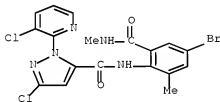
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-66-2 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[(1-methylethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-67-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[(methyldamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

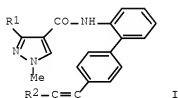
L23 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:342999 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 144:364541  
 TITLE: Synergistic fungicidal compositions comprising a pyrazole derivative  
 INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrenfreund, Josef; Lamberth, Clemens; Tobler, Hans  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
 SOURCE: PCT Int. Appl., 139 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037634	A1	20060413	WO 2005-EP10757	20051006
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,				

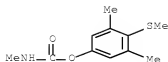
LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ,  
 NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,  
 SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,  
 YU, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

AU 2005291425	A1	20060413	AU 2005-291425	20051006
CA 2579925	A1	20060413	CA 2005-2579925	20051006
EP 1796464	A1	20070620	EP 2005-789589	20051006
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101060781	A	20071024	CN 2005-80039732	20051006
IN 2007DN02204	A	20070803	IN 2007-DN2204	20070321
MX 200703638	A	20070611	MX 2007-3638	20070327
US 20080076664	A1	20080327	US 2007-576627	20070404
KR 2007101225	A	20071016	KR 2007-707991	20070406
PRIORITY APPLN. INFO.:			GB 2004-22400	A 20041008
			WO 2005-EP10757	W 20051006

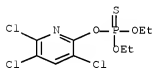
OTHER SOURCE(S): MARPAT 144:364541  
 GI



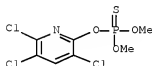
- AB Synergistic fungicidal compns. comprise a pyrazole derivative I (R1 = difluoromethyl or trifluoromethyl; R2 = alkyl, alkoxyalkyl or haloalkyl) or a I tautomer and any of a very large number of known fungicides and/or insecticides.
- IT 2032-65-7D, Methiocarb, mixts. with pyrazole derivs.  
 2921-88-2D, Chlorpyrifos, mixts. with pyrazole derivs.  
 5598-13-0D, Chlorpyrifos-methyl, mixts. with pyrazole derivs.  
 500008-29-7D, mixts. with pyrazole derivs.  
 500008-44-6D, mixts. with pyrazole derivs.  
 500008-45-7D, mixts. with pyrazole derivs.  
 500008-56-0D, mixts. with pyrazole derivs.  
 500008-60-6D, mixts. with pyrazole derivs.  
 500008-62-8D, mixts. with pyrazole derivs.  
 500008-66-2D, mixts. with pyrazole derivs.  
 500008-67-3D, mixts. with pyrazole derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)
- RN 2032-65-7 HCAPLUS
- CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 2921-88-2 HCAPLUS

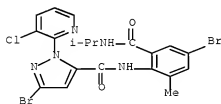
CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

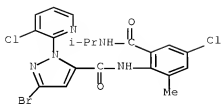
RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[[[1-(methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)

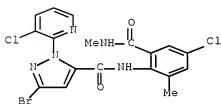


RN 500008-44-6 HCAPLUS

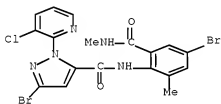
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[[1-(methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)



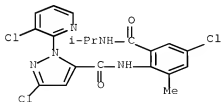
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

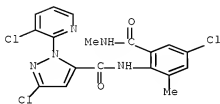
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

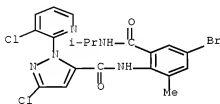
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-  
methylethylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX  
NAME)

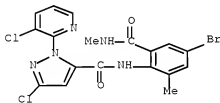
RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

RN 500008-66-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[1-(methyl-  
ethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA  
INDEX NAME)

RN 500008-67-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA  
INDEX NAME)

REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 2006:151202 HCAPLUS Full-text

DOCUMENT NUMBER: 144:207363

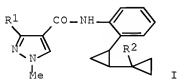
TITLE: Synergistic fungicidal compositions comprising  
pyrazole derivativesINVENTOR(S): Walter, Harald; Neuenschwander, Urs; Zeun, Ronald;  
Ehrenfreund, Josef; Tobler, Hans; Corsi, Camilla;



Lamberth, Clemens  
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.  
 SOURCE: PCT Int. Appl., 104 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006015865	A1	20060216	WO 2005-EP8748	20050811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005270319	A1	20060216	AU 2005-270319	20050811
CA 2573661	A1	20060216	CA 2005-2573661	20050811
EP 1778013	A1	20070502	EP 2005-791052	20050811
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BA, HR, MK, YU				
CN 101001527	A	20070718	CN 2005-80027381	20050811
JP 2008509189	T	20080327	JP 2007-525257	20050811
IN 2007DN00317	A	20070817	IN 2007-DN317	20070111
MX 200700785	A	20070327	MX 2007-785	20070119
US 20080070785	A1	20080320	US 2007-573277	20070206
KR 2007041744	A	20070419	KR 2007-703104	20070208
PRIORITY APPLN. INFO.:			GB 2004-18047	A 20040812
			WO 2005-EP8748	W 20050811

OTHER SOURCE(S): MARPAT 144:207363  
 GI



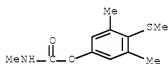
AB Synergistic fungicidal compns. comprise the pyrazole derivs. I (R1 = CF3 or CHF2; H or Me) or I tautomers and one of a very large number of known fungicides.  
 IT 2032-63-7D, Metnlocarb; mixts. with pyrazole derivs.  
 2921-88-2D, Chloropyrifos, mixts. with pyrazole derivs.  
 5598-13-0D, mixts. with pyrazole derivs. 5598-52-7E,  
 Fospirate; mixts. with pyrazole derivs. 560008-29-7D, mixts.

with pyrazole derivs. 500008-44-6D, mixts. with pyrazole derivs.  
 500008-45-7D, mixts. with pyrazole derivs. 500008-56-0E,  
 mixts. with pyrazole derivs. 500008-60-6D, mixts. with pyrazole  
 derivs. 500008-62-8E, mixts. with pyrazole derivs.  
 500008-66-2E, mixts. with pyrazole derivs. 500008-67-3D,  
 mixts. with pyrazole derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)

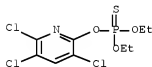
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX  
 NAME)



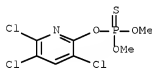
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



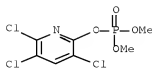
RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



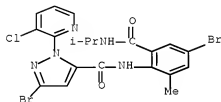
RN 5598-52-7 HCAPLUS

CN Phosphoric acid, dimethyl 3,5,6-trichloro-2-pyridinyl ester (CA INDEX  
 NAME)



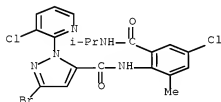
RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[[1-(methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



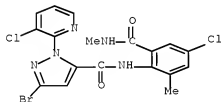
RN 500008-44-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[1-(methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



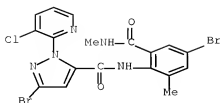
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



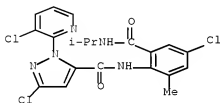
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



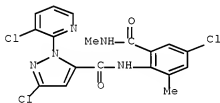
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



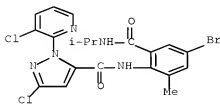
RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

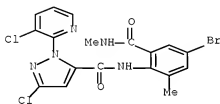


RN 500008-66-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[(1-methylethyl)amino]carbonylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

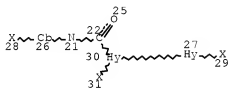


RN 500008-67-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-  
 [(methylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA  
 INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

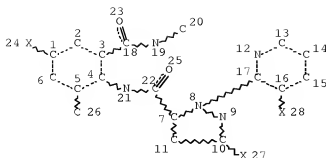
=> => d stat que l24  
 L1 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY AT 26  
 GGCAT IS MCY AT 27  
 GGCAT IS MCY AT 30  
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE  
 L2 705 SEA FILE=REGISTRY SSS FUL L1  
 L5 105 SEA FILE=REGISTRY ABB=ON PLU=ON CHLORPYRIFOS/BI  
 L6 14 SEA FILE=REGISTRY ABB=ON PLU=ON METHIOCARB/BI  
 L8 11745 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ?CHLORPYRIF?  
 L9 1404 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 OR ?METHIOCARB?  
 L20 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE  
 L21 170 SEA FILE=REGISTRY SUB=L2 SSS FUL L20  
 L22 164 SEA FILE=HCAPLUS ABB=ON PLU=ON L21  
 L23 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND L8 AND L9  
 L24 16 SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 AND (L8 OR L9)) NOT L23

=>  
 =>

=> d ibib abs hitstr 124 1-16

L24 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2008:72081 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 148:114856  
 TITLE: Method of controlling or preventing pathogenic damage  
 in a plant propagation material  
 INVENTOR(S): Brandl, Franz; Oostendorp, Michael; Zeun, Ronald  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
 SOURCE: PCT Int. Appl., 34pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008006541	A2	20080117	WO 2007-EP6087	20070710
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				

IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

EP 2006-14447

A 20060712

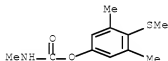
AB The invention relates to a method of controlling or preventing pathogenic damage in a plant propagation material, a plant, parts of a plant and/or plant organs that grow at a later point in time. The method comprises applying on the plant propagation material a composition comprising a formulated mixture of components (A) penthiopyrad, (B) one or more fungicides, and (C) one or more formulation adjuvants as defined in the patent claims, and may further comprise addition of an insecticide and/or nematocide.

IT 2032-65-7D, mixture 500008-45-7D, mixture

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (method of controlling or preventing pathogenic damage in plant propagation material)

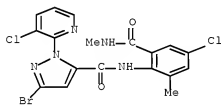
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1259380 HCAPLUS Full-text

TITLE: Control of a broad spectrum of insect pests in apple, 2006

AUTHOR(S): Wise, John C.; Schoenborn, Kevin; Gut, Larry J.

CORPORATE SOURCE: Department of Entomology, Michigan State University, East Lansing, MI, 48824-1115, USA

SOURCE: Arthropod Management Tests (2007), 32, A27

CODEN: AMNTE8

URL: [http://www.entsoc.org/Protected/AMT/members\\_only/AMT32/A/A27.pdf](http://www.entsoc.org/Protected/AMT/members_only/AMT32/A/A27.pdf)

PUBLISHER: Entomological Society of America

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AB The effectiveness of insecticide treatments for the control of insect pests on Red Delicious apple trees was compared in Michigan in 2006. The insecticides included Assail 30WG, Avaunt 30WG, Rimon 0.83EC, Carpovirusine, Intrepid 2F, Calypso 4F, Warrior 1CS, Supracide 2EC, Damoil, Imidan 70W, Lorsban 75WG, Provado 1.6L, Savey 50WP, Asana 0.66EC, Rynaxypyr 35WG, Baythroid 1EC, Guthion 50WSB, Provado Pro 1.6SC, Envirdor 2SC, and Belt 4SC.

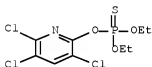
IT INDEXING IN PROGRESS

IT 2921-88-2, Lorsban 500006-45-7, Rynaxypyr

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(comparison of insecticide treatments for control of broad spectrum of insect pests on Red Delicious apple trees in Michigan in 2006)

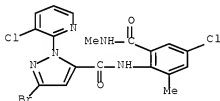
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



RN 500006-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1259365 HCAPLUS Full-text

DOCUMENT NUMBER: 148:301439

TITLE: Internal feeding Lepidoptera study, 2006

AUTHOR(S): Hull, Larry A.

CORPORATE SOURCE: Fruit Research and Extension Center, Penn State University, Biglerville, PA, 17307-0330, USA

SOURCE: Arthropod Management Tests (2007), 32, A12

CODEN: AMNTE8

URL: [http://www.entsoc.org/Protected/AMT/members\\_only/AMT32/A/A12.pdf](http://www.entsoc.org/Protected/AMT/members_only/AMT32/A/A12.pdf)

PUBLISHER: Entomological Society of America

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AB The effectiveness of insecticidal treatments for the control of insect pests (especially internal feeding Lepidoptera) was compared on Golden delicious and



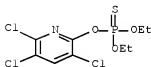
Yorking apple trees in Pennsylvania in 2006. The insecticides included DPX-EZY45 35WG, LI-700, Guthion 50W, Rimon 0.83EC, Imidan 70W, Assail 30SG, Intrepid 2F, Lorsban 75WG, Esteem 35W, and Clutch 50WDG.

IT 2921-88-2, Lorsban 500000-45-7, Dpx e2y45

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(insecticide control of insect pests (especially internal feeding  
Lepidoptera) on apple trees in Pennsylvania in 2006)

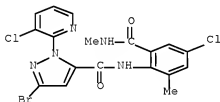
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1236469 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 147:481488

TITLE: Preparation of pyrazoline derivative acaricides and insecticides

INVENTOR(S): McCann, Stephen Frederick; Smith, Brenton Todd

PATENT ASSIGNEE(S): E. I. du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 11pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007123855	A2	20071101	WO 2007-US9184	20070413
WO 2007123855	A3	20080110		

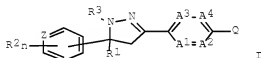
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,  
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,  
GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,

KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG,  
 MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,  
 RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR,  
 TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2006-793576P P 20060420

OTHER SOURCE(S): MARPAT 147:481488

GI



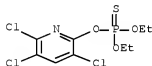
AB The pyrazoline derivs. I [Z = N or CR2; R1 = cyano, (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl or cycloalkylalkyl; R2 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R3 = H, cyano, CHO, alkyl, alkenyl, etc.; Q = (un)substituted 5- or 6-membered saturated or unsatd. heterocycl, etc.; A1 = CR4 or N; A2 = CR5 or N; A3 = CR6 or N; A4 = CR7 or N; R4-7 = H, halo, (halo)alkyl, (halo)cycloalkyl, etc.; n = 1-4] as well as I isomers, N-oxides and salts are prepared as acaricides and insecticides.

IT 2921-88-2, Chlorpyrifos 5598-13-0,  
 Chlorpyrifos-methyl 500008-45-7, Chlorantranilprole  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); PAC  
 (Pharmacological activity); THU (Therapeutic use); BIOL (Biological  
 study); USES (Uses)

(pyrazoline compds. useful in controlling invertebrate pests)

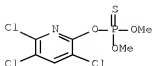
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



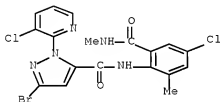
RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:912052 HCAPLUS Full-text

DOCUMENT NUMBER: 147:228733

TITLE: Synergistic fungicidal compositions comprising a o-cyclopropylcarboxanilide derivative

INVENTOR(S): Brandl, Franz; Oostendorp, Michael; Zeun, Ronald

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 32pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

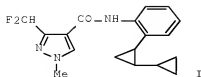
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007090623	A2	20070816	WO 2007-EP1034	20070207
WO 2007090623	A3	20080103		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				

PRIORITY APPLN. INFO.: EP 2006-2628

A 20060209

GI



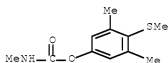
AB Synergistic fungicidal comps. comprise a o-cyclopropylcarboxanilide derivative I and any from a large number of known fungicides or insecticides.

IT 2032-65-7D, Methiocarb, mixts. containing o-cyclopropylcarboxanilide derivative and 500008-45-7D, mixts. containing o-cyclopropylcarboxanilide derivative and

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal comps.)

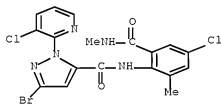
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:874471 HCAPLUS Full-text

DOCUMENT NUMBER: 147:257765

TITLE: Fluoroalkenyl derivatives as insecticides and nematocides and their preparation and use in combination with other biological active agents

INVENTOR(S): Hu, Yulin; Reed, Earl William; Song, Ying

PATENT ASSIGNEE(S): E. I. du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 96pp.

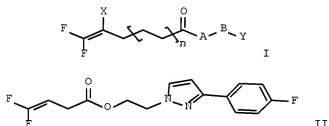
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007089455	A1	20070809	WO 2007-US1457	20070118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2006-762643P P 20060127  
OTHER SOURCE(S): MARPAT 147:257765  
GI



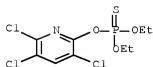
AB Disclosed are compds. of formula I, including all geometric and stereoisomers, N-oxides, and salts thereof. Also disclosed are compns. containing the compds. of formula I and methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biol. effective amount of a compound or a composition of the invention, said composition optionally further comprising a biol. effective amount of at least one addnl. biol. active compound or agent. Compds. of formula I wherein X is H, F, and Cl-4 (halo)alkyl; A is O, S and NH and derivs.; B is Cl-4 alkylene; Y is (un)substituted 5- to 6-membered heteroarom. ring and (un)substituted 8- to 10-membered fused aromatic heterobicyclic ring, and (OCH<sub>2</sub>CH<sub>2</sub>)<sub>1-5</sub>OH and derivs.; n is 0, 1 and 2; and their N-oxides and salts thereof, are claimed. Example compound II was prepared by alkylation of 2-(4-fluorophenyl)-1H-pyrazole with Et bromoacetate; the resulting Et 3-(4-fluorophenyl)-1H-pyrazole-1-acetate underwent reduction to give 3-(4-fluorophenyl)-1H-pyrazole-1-ethanol, which underwent esterification with 4,4-difluoro-2-butenic acid to give compound II. All the invention compds. were evaluated for their insecticidal and nematocidal activity.

IT 2321-63-2, Chlorpyrifos 5598-13-0, Chlorpyrifos-methyl 569908-35-7, Chlorantraniliprole  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(preparation of fluoroalkenyl derivs. as insecticides and nematocides useful alone or in combination with other biol. active agents)

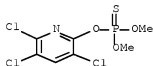
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



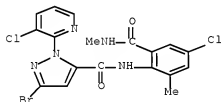
RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:790180 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 147:159933

TITLE: Suspension concentrates of carboxamide insecticides and acaricides

INVENTOR(S): Gutsche, Oliver Walter; Annan, Isaac Billy; Portillo, Hector Eduardo

PATENT ASSIGNEE(S): E. I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 42pp.

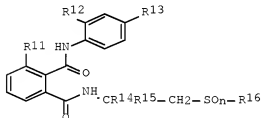
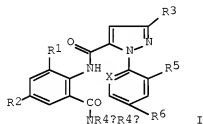
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007081553	A2	20070719	WO 2006-US49315	20061227
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			US 2006-756377P	P 20060105
			US 2006-855606P	P 20061031
			US 2006-858296P	P 20061110

OTHER SOURCE(S): MARPAT 147:159933  
 GI



AB Disclosed are suspension concs. comprising by weight based on the total weight of the composition, about 0.1 to about 40% of at least one carboxamide insecticide and acaricide; 0 to about 20% of at least one other biol. active agent; about 30 to about 95% of at least one water-immiscible liquid carrier; about 2 to about 50% of at least one emulsifier; about 0.01 to about 10% of a silica thickener; about 0.1 to about 10% of at least one protic solvent selected from water, C1-C12 alkanol and C2-C3 glycol; and about 0.001 to about 5% of at least one water-soluble carboxylic acid. The carboxamides are

anthranilamides I (X = N, CF, CCl, CBr or Cl; R1 = Me, Cl, Br or I; R2 = H, F, Cl, Br or CN; R3 = F, Cl, Br, haloalkoxy or haloalkyl; R4a = H, alkyl, cyclopropylmethyl or 1-cyclopropylethyl; R4b = H or Me; R5, R6 = H, F, Cl or Br) or a phthalic diamide II (R11 = Me, Cl, Br or I; R12 = Me or Cl; R13 = fluoroalkyl; R14, R15 = H or Me; R16 = Me or Et; n = 1 or 2).

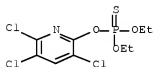
IT 2921-88-2, Chlorpyrifos

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(insecticidal and acaricidal suspension concentrate containing a

carboxamide and)

RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

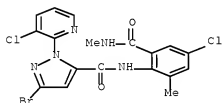


IT 500008-45-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(suspension concs. of carboxamide insecticides and acaricides)

RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:755410 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 147:166307

TITLE: Preparation of isoxazoles for controlling  
invertebrate pests

INVENTOR(S): Lahm, George Philip; Shoop, Wesley Lawrence; Xu, Ming

PATENT ASSIGNEE(S): E. I. du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 122pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----



WO 2007079162 A1 20070712 WO 2006-US49459 20061228

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

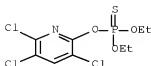
PRIORITY APPLN. INFO.:

US 2005-755247P P 20051230  
 US 2006-839988P P 20060823  
 US 2006-857307P P 20061107

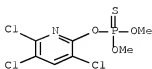
OTHER SOURCE(S): MARPAT 147:166307  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

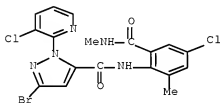
- AB Isoxazoline derivs. I [A, B, D, E, F, G = CR3, N; J, K, L = CR2, N; T = (R2)n; W = O, S; R1 = C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C3-C6 cycloalkyl, C4-C7 alkylcycloalkyl, C4-C7 cycloalkylalkyl; R2 = H, halo, C1-C6 alkyl, C1-C6 haloalkyl, C1-C6 (halo)alkoxy, C1-C6 alkylsulfonyl, etc.; R3 = H, halo, C1-C6 (halo)alkyl, C1-C6 haloalkylsulfinyl, C2-C6 dialkylamino, etc.; R4 = H, C1-C6 alkyl, C2-C6 alkenyl, C2-C7 alkylcarbonyl, etc.; R5 = H, OR10, NR11R12, C2-C6 alkenyl, etc.; R4R5 = 2-6 membered ring with attached N; R10 = H, C1-C6 (halo)alkyl, C2-C6 alkynyl, C3-C6 cycloalkyl, C4-C7 alkylcycloalkyl, C4-C7 cycloalkylalkyl; R11R12 = 2-6 membered ring with attached N] were prepared. For example, 4-bromo-1-naphthalenecarboxaldehyde was converted to the oxime which reacted with 1,3-dichloro-5-[1-(trifluoromethyl)ethenyl]benzene to give isoxazole II. II was reacted with 2-(aminomethyl)pyridine to give isoxazolyl naphthalenecarboxamide III as one of the desired title compds. Also disclosed are compns. containing I and methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biol. effective amount of a compound or a composition of the invention.
- IT 2921-88-2, Chlorpyrifos 5598-13-0, Chlorpyrifos-methyl 506908-45-7, Chlorantranilprole  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (biol. active additive; preparation of isoxazoline derivs. for controlling invertebrate pests)
- RN 2921-88-2 HCAPLUS
- CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



RN 5598-13-0 HCAPLUS  
 CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



RN 500008-45-7 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
 [(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



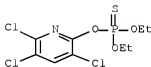
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2008 ACS ON STN  
 ACCESSION NUMBER: 2006:1288739 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:293836  
 TITLE: Codling moth control in walnuts, 2005  
 AUTHOR(S): Van Steenwyk, R. A.; Coates, W. W.; Nomoto, R. M.  
 CORPORATE SOURCE: Department of E.S.P.M., University of California,  
 Berkeley, CA, 94720-3114, USA  
 SOURCE: Arthropod Management Tests (2006), 31, D22  
 CODEN: AMNT8  
 URL: <http://www.entsoc.org/Protected/AMT/AMT31/AMT.asp>  
 x?Report=D22  
 PUBLISHER: Entomological Society of America  
 DOCUMENT TYPE: Journal; (online computer file)  
 LANGUAGE: English  
 AB The efficacy of 10 insecticide agents as possible replacements for  
 organophosphates in the control of codling moth (CM; *Cydia pomonella*) and  
 navel orangeworm (NOW; *Amyelois transitella*) was studied on mature 'Payne'  
 walnut trees in California. All treatments led to lower % of CM infested  
 dropped nuts vs. untreated check. Only the Pure Spray Green horticultural oil  
 treatment had higher number of CM infested dropped nuts vs. standard  
 treatments with Lorsban and PennCap-M. The CM-infested dropped nut counts  
 were greatly influenced by tree size and crop load. All treatments, except  
 DPX-E2Y45 at 0.04375 lb active ingredient/acre, led to fewer NOW-infested nuts  
 at harvest vs. untreated check.  
 IT 2921-88-2, Lorsban 500008-45-7, Dpx-e2y45  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(efficacy of 10 insecticide agents in control of codling moth (*Cydia pomonella*) and navel orangeworm (*Amyelois transitella*) on mature 'Payne' walnut trees in California)

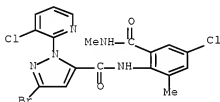
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1288697 HCAPLUS Full-text

DOCUMENT NUMBER: 146:374141

TITLE: Timing and spray volume efficacy against raspberry crown borer, 2003 to 2005

AUTHOR(S): McKern, Jackie A.; Johnson, Donn T.; Lewis, Barb A.

CORPORATE SOURCE: Department of Entomology, University of Arkansas, Fayetteville, AR, 72701, USA

SOURCE: Arthropod Management Tests (2006), 31, C1

CODEN: AMNTE8

URL: <http://www.entsoc.org/Protected/AMT/AMT31/AMT.asp?Report=C1>

PUBLISHER: Entomological Society of America

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AB The impact of spray timing and working fluid volume/acre on insecticidal efficacy against raspberry crown borer (RCB; *Pennisetia marginata*) larvae, crown damage, and yield loss was examined on hybrid blackberry (*Rubus*) plants. The insecticidal nematode (*Heterorhabditis bacteriophora*; *Steinernema feltiae*, *Steinernema carpocapsae*) suspensions and chemical agent (Novaluron, Guthion Solupak, Lorsban, Brigade, BAS 320 I, DFX E2Y45, Admire) soins. were applied as soil drenches to the blackberry cane base. The treatment efficacy varied by working fluid volume (50, 100 and 200 gal/acre) and date of application. Soon after RCB egg hatch on 23 Oct. 2003, Guthion, Lorsban and Brigade provided more control (>89%) than the nematodes. Novaluron provided 59% control and

the *S. feltiae* 46%. Treatments delayed until 6 May 2004 provided <40% decrease in larval counts; this was similar to untreated check. Treatments applied on 3 Nov. 2004 provided RCB control by halved rates of Brigade (100%), E2Y45 (100%), and BAS 320 I (69%); Novaluron provided only 11% control. Treatments applied on 7 Apr 2005 at full rates provided RCB control by E2Y45 (89%), Admire (86%; half rate 81%), Brigade (83%), BAS 320 I (64%), and Novaluron (59%).

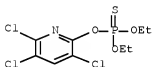
IT 2921-88-2, Lorsban 500008-45-7, e2y45

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(insecticide spray dose, application timing and working volume effects on efficacy of raspberry crown borer (*Pennisetia marginata*) control on hybrid blackberry plants)

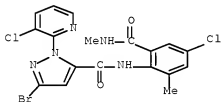
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L24 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1095919 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 145:412437

TITLE: Molluscicidal compositions comprising neonicotinoids

INVENTOR(S): Weiss, Martin; Brandl, Franz

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 24pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2006108553	A1	20061019	WO 2006-EP3134	20060406

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

AU 2006233601 A1 20061019 AU 2006-233601 20060406

EP 1865771 A1 20071219 EP 2006-724080 20060406

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

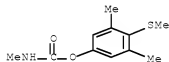
PRIORITY APPLN. INFO.: EP 2005-7712 A 20050408  
WO 2006-EP3134 W 20060406

AB A method of controlling mollusc damage in horticulture or agriculture comprises treating a plant propagation material, such as seed, with a combination of (a) neonicotinoids, pyrethroids, macrolides, and a bisamide compound, and (b) metaldehyde, methiocarb, thiodicarb, cinnamaldehyde and/or 3,5-dimethoxycinnamic acid.

IT 2032-65-7D, Methiocarb, mixts. containing  
500008-45-7D, mixts. containing  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(molluscicidal comps.)

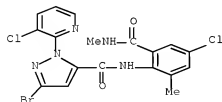
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 500008-45-7 HCAPLUS

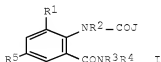
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:496102 HCAPLUS Full-text  
 DOCUMENT NUMBER: 144:462625  
 TITLE: Preparation of anthranilamide derivative insecticides and acaricides  
 INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin; Taggi, Andrew Edmund; Berezna, James Francis  
 PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Co., USA  
 SOURCE: PCT Int. Appl., 97 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

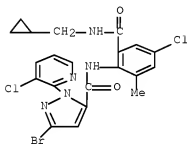
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006055922	A2	20060526	WO 2005-US42196	20051118
WO 2006055922	A3	20061221		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005306363	A1	20060526	AU 2005-306363	20051118
CA 2585378	A1	20060526	CA 2005-2585378	20051118
EP 1812421	A2	20070801	EP 2005-851952	20051118
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
CN 101061103	A	20071024	CN 2005-80039548	20051118
IN 2007DN03224	A	20070831	IN 2007-DN3224	20070430
KR 2007086280	A	20070827	KR 2007-713584	20070615
PRIORITY APPLN. INFO.:				
				P 20041118
				P 20050610
				W 20051118
OTHER SOURCE(S): MARPAT 144:462625				
GI				



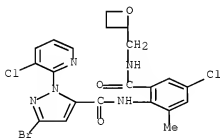
AB The anthranilamide derivs. I and their geometric and stereoisomers, N-oxides, and salts [J = (un)substituted Ph or N-containing heterocyclyl; R1 = alkyl

alkenyl, alkynyl, etc.; R2 = alkylcarbonyl, alkoxy carbonyl or (di)alkylaminocarbonyl; R3 = (cyclo)alkyl, alkenyl, alkynyl, alkoxy, etc.; R4 = (un)substituted alkylcycloalkyl, alkenylcycloalkyl, alkynylcycloalkyl, cycloalkylalkyl, cycloalkylalkenyl, cycloalkylalkynyl, cycloalkenylalkyl or alkylcycloalkenyl, oxiranylalkyl, thiranylalkyl, oxetanylalkyl, thietanylalkyl, 3-oxetanyl or 3-thietanyl; R5 = (cyclo)alkyl, haloalkyl, alkenyl alkynyl, etc.] are prepared as pesticides for controlling invertebrate pests, specifically insecticides and acaricides.

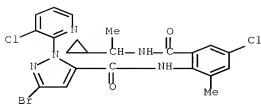
IT 882401-50-5P 886583-30-8P 886583-54-6P  
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation as insecticide and acaricides)  
 RN 882401-50-5 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-  
 [(cyclopropylmethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-  
 pyridinyl)- (CA INDEX NAME)



RN 886583-30-8 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[2-oxetanylmethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 886583-54-6 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[[[1-cyclopropylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



IT 886583-65-9 886583-66-0

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticide and acaricide)

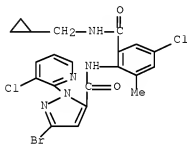
RN 886583-65-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-  
[(cyclopropylmethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-  
pyridinyl)-, mixt. with (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-  
imidazolidinimine (9CI) (CA INDEX NAME)

CM 1

CRN 882401-50-5

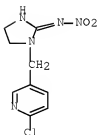
CMF C21 H18 Br Cl2 N5 O2



CM 2

CRN 138261-41-3

CMF C9 H10 Cl N5 O2



RN 886583-66-0 HCAPLUS

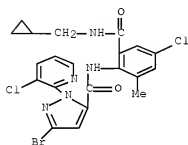


CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[[4-chloro-2-  
[[ (cyclopropylmethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-  
pyridinyl)-, mixt. with 3-[[ (2-chloro-5-thiazolyl)methyl]tetrahydro-5-  
methyl-N-nitro-4H-1,3,5-oxadiazin-4-imine (9CI) (CA INDEX NAME)

CM 1

CRN 882401-50-5

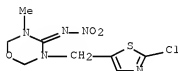
CMF C21 H18 Br Cl2 N5 O2



CM 2

CRN 153719-23-4

CMF C8 H10 Cl N5 O3 S



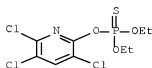
IT 2921-88-2D, Chloropyrifos, mixts. with anthranilamide derivs.

5598-13-0D, mixts. with anthranilamide derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticides and acaricides)

RN 2921-88-2 HCAPLUS

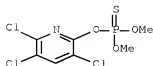
CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



RN 5598-13-0 HCAPLUS

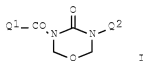
CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester

(CA INDEX NAME)



L24 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:194224 HCAPLUS Full-text  
 DOCUMENT NUMBER: 144:227957  
 TITLE: Synergistic insecticides containing oxadiazinones  
 INVENTOR(S): Sakamoto, Norihisa  
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
 SOURCE: PCT Int. Appl., 82 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006022396	A1	20060302	WO 2005-JP15590	20050822
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM JP 2006089467 A 20060406 JP 2005-239628 20050822 PRIORITY APPLN. INFO.: JP 2004-245421 A 20040825 OTHER SOURCE(S): MARPAT 144:227957 GI				



AB Insecticidal compns. that are effective at low doses or at low application frequencies contain  $\geq 1$  compound represented by the formula I, where Q1 and Q2 are substituted Ph groups, and  $\geq 1$  compound selected from neonicotinoids,

phenylpyrazoles, or the like. Thus, 3-(2,6-difluorobenzoyl)-5-[2-fluoro-4-[(trifluoromethyl)thio]phenyl]tetrahydro-4H-1,3,5-oxadiazin-4-one + chlorfenapyr mixture at 0.03 + 0.7 ppm synergistically controlled Spodoptera litura on cabbage.

IT 876608-76-3

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as synergistic insecticide)

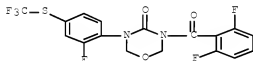
RN 876608-76-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-[[[1-methylethyl]amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-, mixt. with 3-(2,6-difluorobenzoyl)-5-[2-fluoro-4-[(trifluoromethyl)thio]phenyl]tetrahydro-4H-1,3,5-oxadiazin-4-one (9CI) (CA INDEX NAME)

CM 1

CRN 596847-69-7

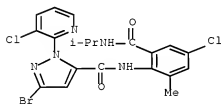
CMF C17 H10 F6 N2 O3 S



CM 2

CRN 500008-44-6

CMF C20 H18 Br Cl2 N5 O2



IT 2921-88-2D, Chloropyrifos, mixts. with oxadiazinones  
599006-44-6D, mixts. with oxadiazinones 599006-60-6D,  
mixts. with oxadiazinones

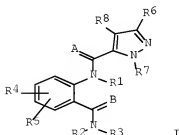
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as synergistic insecticides)

RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



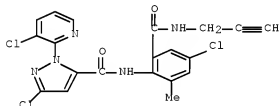
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024222	A1	20030327	WO 2002-US30302	20020910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2458163	A1	20030327	CA 2002-2458163	20020910
AU 2002341819	B9	20030401	AU 2002-341819	20020910
AU 2002341819	A1	20030401		
AU 2002341819	B2	20070719		
EP 1427285	A1	20040616	EP 2002-775972	20020910
EP 1427285	B1	20070822		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012993	A	20040817	BR 2002-12993	20020910
JP 2005502716	T	20050127	JP 2003-528126	20020910
JP 3770495	B2	20060426		
HU 2004001893	A2	20050128	HU 2004-1893	20020910
HU 2004001893	A3	20051128		
NZ 532269	A	20051028	NZ 2002-532269	20020910
CN 1713819	A	20051228	CN 2002-818578	20020910
RU 2292138	C2	20070127	RU 2004-111986	20020910
AT 370656	T	20070915	AT 2002-775972	20020910
ES 2291500	T3	20080301	ES 2002-775972	20020910
ZA 2004000413	A	20050120	ZA 2004-413	20040120
US 20040209923	A1	200401021	US 2004-485125	20040126
IN 2004MN00090	A	20070706	IN 2004-MN90	20040205
MX 2004PA02648	A	20040607	MX 2004-PA2648	20040319
KR 783260	B1	20071206	KR 2004-704134	20040320
IN 2005MN00443	A	20050930	IN 2005-MN443	20050517
PRIORITY APPLN. INFO.:			US 2001-323941P	P 20010921
			WO 2002-US30302	W 20020910
OTHER SOURCE(S):	MARPAT 138:267201			
GI				



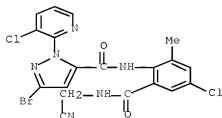
AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an

N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

IT 500007-73-8 500007-80-7 500007-81-8  
 500008-29-7 500008-47-9 500008-56-0  
 500008-64-0 500008-66-2 500008-67-3  
 500008-68-4 500008-79-7 500008-84-4  
 500008-88-8 500008-89-9 500008-90-2  
 500008-91-3 500008-92-4 500008-93-5  
 500008-94-6 500008-95-7 500009-00-7  
 500009-01-8 500009-03-0 500009-05-2  
 500009-06-3 500009-07-4 500009-08-5  
 500009-09-6 500009-10-9 500009-86-9  
 500010-48-0 500010-80-6 500011-53-0  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (anthranilamide compds. as pesticides for plant propagation material)  
 RN 500007-73-8 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(2-propynylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (9CI) (CA INDEX NAME)

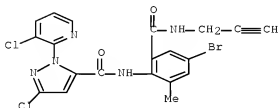


RN 500007-80-7 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[[[(cyanomethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



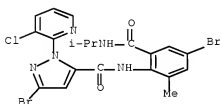
RN 500007-81-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[(2-propynylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (9CI)  
(CA INDEX NAME)



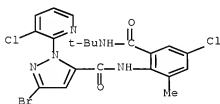
RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(1-methylethylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



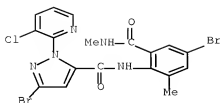
RN 500008-47-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[[[1,1-dimethylethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



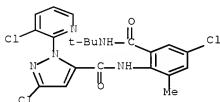
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(methylethylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



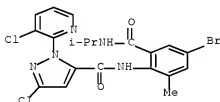
RN 500008-64-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[[[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)



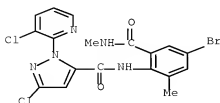
RN 500008-66-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[(1,1-dimethylethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)



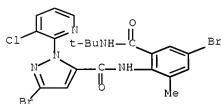
RN 500008-67-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[(methylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)



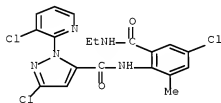


RN 500008-68-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)

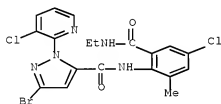
RN 500008-79-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



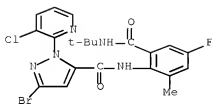
RN 500008-84-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



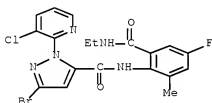
RN 500008-88-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-[(1,1-dimethylethyl)amino]carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



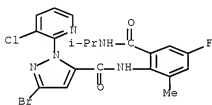
RN 500008-89-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



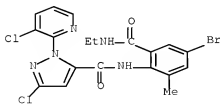
RN 500008-90-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[[1-methylethyl]amino]carbonyl]phenyl]- (CA INDEX NAME)



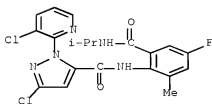
RN 500008-91-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



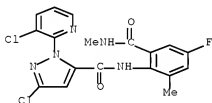
RN 500008-92-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



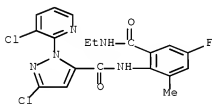
RN 500008-93-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(methyamino)carbonyl]phenyl]- (CA INDEX NAME)



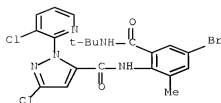
RN 500008-94-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



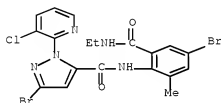
RN 500008-95-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[[[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



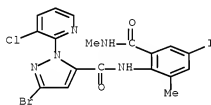
RN 500009-00-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



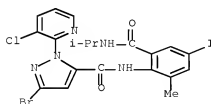
RN 500009-01-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl)- (CA INDEX NAME)



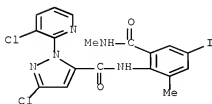
RN 500009-03-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[[1-(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



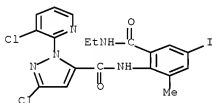
RN 500009-05-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



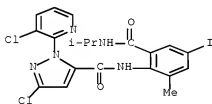
RN 500009-06-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



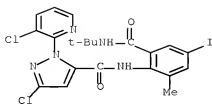
RN 500009-07-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[[1-(methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)

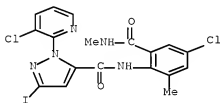


RN 500009-08-5 HCAPLUS

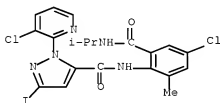
CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[[1,1-dimethylethyl)amino]carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



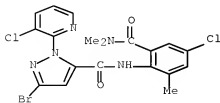
RN 500009-09-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-iodo- (CA INDEX  
NAME)

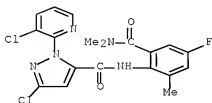
RN 500009-10-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(1-  
methylethylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-iodo- (CA  
INDEX NAME)

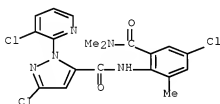
RN 500009-86-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(dimethylamino)carbonyl]-  
6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

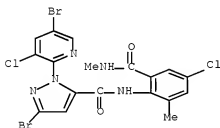
RN 500010-48-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-  
[(dimethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)

RN 500010-80-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-  
[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA  
INDEX NAME)

RN 500011-53-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(5-bromo-3-chloro-2-pyridinyl)-N-[4-  
chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)

IT 500011-33-6 500011-35-3 500011-36-9

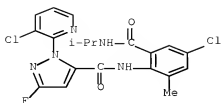
500011-77-8 500011-78-5 500011-79-0

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP  
(Properties); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

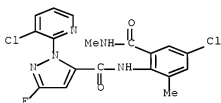
RN 500011-33-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(1-  
methyl-ethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA  
INDEX NAME)



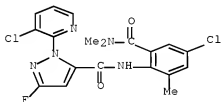
RN 500011-35-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA  
INDEX NAME)



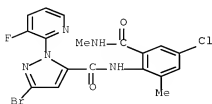
RN 500011-36-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-[(dimethylamino)carbonyl]-6-  
methylphenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



RN 500011-77-8 HCAPLUS

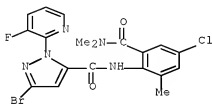
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)





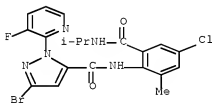
RN 500011-78-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)



RN 500011-79-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[[1-methylethyl]amino]carbonyl]phenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)



IT 2921-88-2, Chlorpyrifos 5598-13-0,

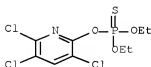
Chlorpyrifos-methyl

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in pesticidal compns. for plant propagation material containing anthranilamides)

RN 2921-88-2 HCAPLUS

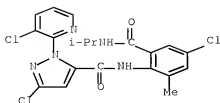
CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



RN 5598-13-0 HCAPLUS

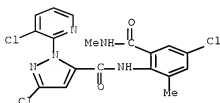
CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)





RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:154155 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 138:200332

TITLE: Arthropodicidal anthranilamides

INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours &amp; Co., USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015519	A1	20030227	WO 2002-US25615	20020813
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EG 23419	A	20050704	EG 2002-893	20020810
TW 225774	B	20050101	TW 2002-91118100	20020812

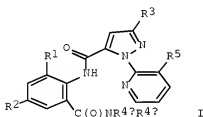
CA 2454485	A1	20030227	CA 2002-2454485	20020813
AU 2002355953	A1	20030303	AU 2002-355953	20020813
AU 2002355953	B2	20070125		
EP 1416797	A1	20040512	EP 2002-752811	20020813
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012023	A	20040803	BR 2002-12023	20020813
JP 2004538328	T	20041224	JP 2003-520290	20020813
JP 3729825	B2	20051221		
NZ 530443	A	20050729	NZ 2002-530443	20020813
ZA 2004000033	A	20050803	ZA 2004-33	20020813
ZA 2004000034	A	20050803	ZA 2004-34	20020813
CN 1678192	A	20051005	CN 2002-815924	20020813
RU 2283840	C2	20060920	RU 2004-107505	20020813
HU 2006000675	A2	20070129	HU 2006-675	20020813
ZA 2003009911	A	20050311	ZA 2003-9911	20031222
US 20040198984	A1	20041007	US 2004-483168	20040107
US 7232836	B2	20070619		
IN 2004MN00015	A	20061222	IN 2004-MN15	20040108
MX 2004PA01320	A	20040520	MX 2004-PA1320	20040211
JP 2005041880	A	20050217	JP 2004-258923	20040906
IN 2005MN00444	A	20050930	IN 2005-MN444	20050517
US 20070225336	A1	20070927	US 2007-787770	20070418

PRIORITY APPLN. INFO.:

US 2001-311919P	P	20010813
US 2001-324128P	P	20010921
US 2002-369661P	P	20020402
JP 2003-520290	A3	20020813
WO 2002-US25615	W	20020813
US 2004-483168	A3	20040107
IN 2004-MN15	A3	20040108

OTHER SOURCE(S): MARPAT 138:200332

GI



AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal comps. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. *aizawai*, *B. thuringiensis* sp. *kurstaki*, *B.*

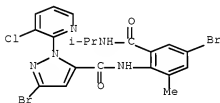
thuringiensis delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

IT 500008-29-7 500008-27-9 500008-56-0  
500008-64-0 500008-66-2 500008-67-3  
500008-69-4 500008-79-7 500008-84-4  
500008-88-8 500008-89-9 500008-90-2  
500008-91-3 500008-92-4 500008-93-5  
500008-94-6 500008-95-7 500009-00-7  
500009-01-8 500009-03-0 500009-05-2  
500009-06-3 500009-07-4 500009-08-5  
500009-86-9 500010-48-0 500010-80-0  
500021-33-0

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(arthropodicidal anthranilamide)

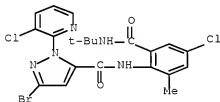
RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[[[1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



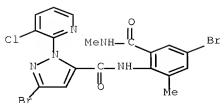
RN 500008-47-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[[[1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



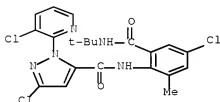
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



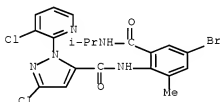
RN 500008-64-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[[[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)



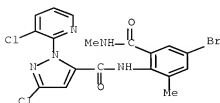
RN 500008-66-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[(1,1-dimethylethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)

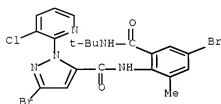


RN 500008-67-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[(methylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)

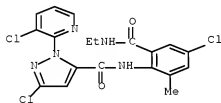


RN 500008-68-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)

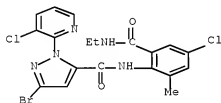
RN 500008-79-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



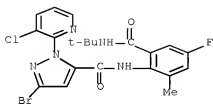
RN 500008-84-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



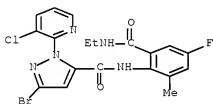
RN 500008-88-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-[(1,1-dimethylethyl)amino]carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



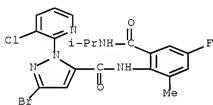
RN 500008-89-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



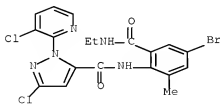
RN 500008-90-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[[1-methylethyl]amino]carbonyl]phenyl]- (CA INDEX NAME)



RN 500008-91-3 HCAPLUS

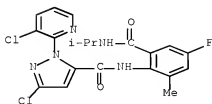
CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-92-4 HCAPLUS

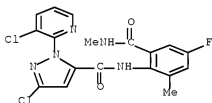


CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



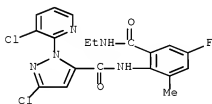
RN 500008-93-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(methyamino)carbonyl]phenyl]- (CA INDEX NAME)



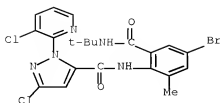
RN 500008-94-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



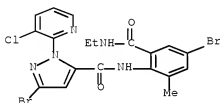
RN 500008-95-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[[[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



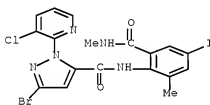
RN 500009-00-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



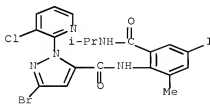
RN 500009-01-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



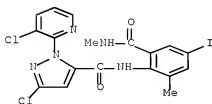
RN 500009-03-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[[1-(methyl-ethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



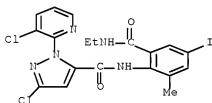
RN 500009-05-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



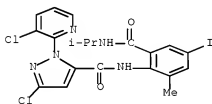
RN 500009-06-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



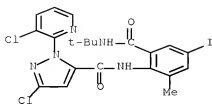
RN 500009-07-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[[1-(methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



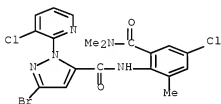
RN 500009-08-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[[1,1-dimethylethyl)amino]carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



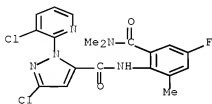
RN 500009-86-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



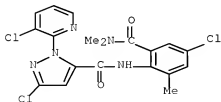
RN 500010-48-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(dimethylamino)carbonyl]-4-fluoro-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



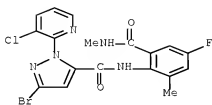
RN 500010-80-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500021-33-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



IT 2921-88-2, Chlorpyrifos 5598-13-0,

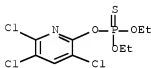
Chlorpyrifos-methyl

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in arthropodocidal compns. containing anthranilamide)

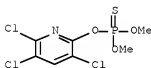
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



IT 500008-44-6P 500008-45-7P 500008-60-6P

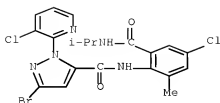
500008-62-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arthropodocidal anthranilamide)

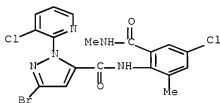
RN 500008-44-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[1-methylethyl]amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



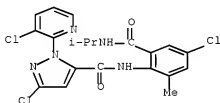
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



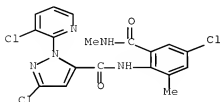
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:154154 HCAPLUS Full-text

DOCUMENT NUMBER: 138:200331

TITLE: Method for controlling particular insect pests by

INVENTOR(S): applying anthranilamide compounds  
Lahm, George Philip; McCann, Stephen Frederick; Patel, Kanu Maganbhai; Selby, Thomas Paul; Stevenson, Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

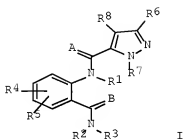
FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015518	A1	20030227	WO 2002-US25613	20020813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2454302	A1	20030227	CA 2002-2454302	20020813
AU 2002355951	A1	20030303	AU 2002-355951	20020813
AU 2002355951	B2	20071206		
EP 1416796	A1	20040512	EP 2002-752809	20020813
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
HU 2004001043	A2	20040928	HU 2004-1043	20020813
HU 2004001043	A3	20051128		
BR 2002012187	A	20041005	BR 2002-12187	20020813
CN 1541063	A	20041027	CN 2002-815930	20020813
JP 2004538327	T	20041224	JP 2003-520289	20020813
JP 3689817	B2	20050831		
ZA 2004000033	A	20050803	ZA 2004-33	20020813
ZA 2004000034	A	20050803	ZA 2004-34	20020813
RU 2262231	C1	20051020	RU 2004-107513	20020813
NZ 530442	A	20060728	NZ 2002-530442	20020813
ZA 2003009911	A	20050311	ZA 2003-9911	20031222
US 20050075372	A1	20050407	US 2004-483115	20040107
IN 2004MN00013	A	20070309	IN 2004-MN13	20040108
MX 2004PA01322	A	20040520	MX 2004-PA1322	20040211
JP 2005041880	A	20050217	JP 2004-258923	20040906
IN 2005MN00438	A	20051202	IN 2005-MN438	20050517
PRIORITY APPLN. INFO.:			US 2001-311919P	P 20010813
			US 2001-324173P	P 20010921
			US 2001-324128P	P 20010921

US 2002-369661P	P 20020402
JP 2003-520290	A3 20020813
WO 2002-US25613	W 20020813
IN 2004-MN13	A3 20040108

OTHER SOURCE(S): MARPAT 138:200331  
GI



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodocides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

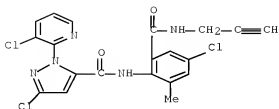
IT 500007-73-3 500007-80-7 500007-81-3  
500008-29-7 500008-47-9 500008-56-0  
500008-64-0 500008-66-2 500008-67-3  
500008-68-4 500008-79-7 500008-84-4  
500008-88-8 500008-89-9 500008-90-2  
500008-91-3 500008-92-4 500008-93-5  
500008-94-6 500008-95-7 500009-00-7  
500009-01-8 500009-03-0 500009-05-2  
500009-06-3 500009-07-4 500009-08-5  
500009-09-6 500009-10-9 500009-86-9  
500010-48-0 500010-80-0 500011-33-6  
500011-35-8 500011-36-9 500011-53-0  
500011-77-8 500011-78-9 500011-79-0

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(anthranilamide compds. as insecticides)

RN 500007-73-8 HCAPLUS

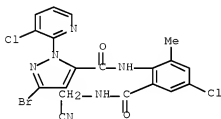
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(2-propynylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (9CI) (CA INDEX NAME)





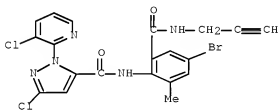
RN 500007-80-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-  
[[ (cyanomethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)



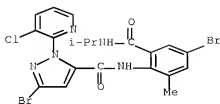
RN 500007-81-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[(2-  
propynylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (9CI)  
(CA INDEX NAME)



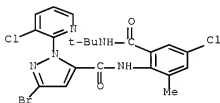
RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(1-  
methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX  
NAME)



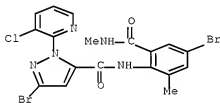
RN 500008-47-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)



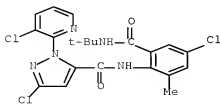
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)



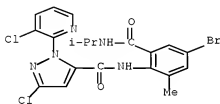
RN 500008-64-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)



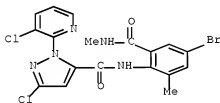
RN 500008-66-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



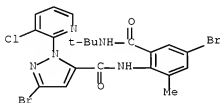
RN 500008-67-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[(methylethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



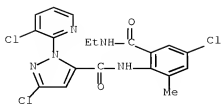
RN 500008-68-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



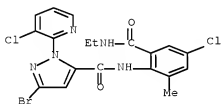
RN 500008-79-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



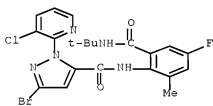
RN 500008-84-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



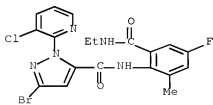
RN 500008-88-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-[[1,1-dimethylethyl]amino]carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



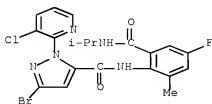
RN 500008-89-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



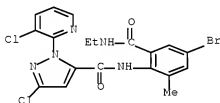
RN 500008-90-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



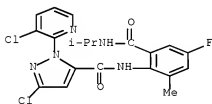
RN 500008-91-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



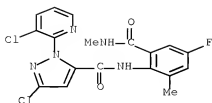
RN 500008-92-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



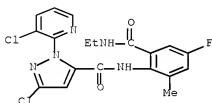
RN 500008-93-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-fluoro-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



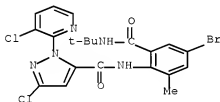
RN 500008-94-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



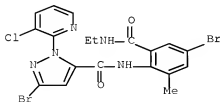
RN 500008-95-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



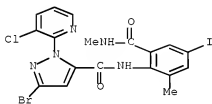
RN 500009-00-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



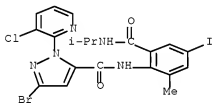
RN 500009-01-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



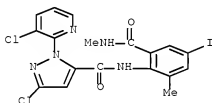
RN 500009-03-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



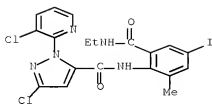
RN 500009-05-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



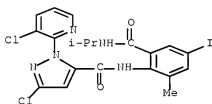
RN 500009-06-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



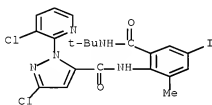
RN 500009-07-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



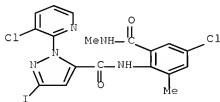
RN 500009-08-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(1,1-dimethylethyl)amino]carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



RN 500009-09-6 HCAPLUS

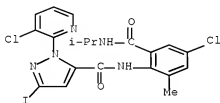
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-iodo- (CA INDEX NAME)





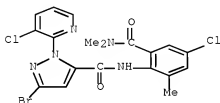
RN 500009-10-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[1-(methylethyl)aminolcarbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-iodo- (CA INDEX NAME)



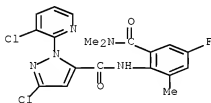
RN 500009-86-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



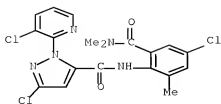
RN 500010-48-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(dimethylamino)carbonyl]-4-fluoro-6-methylphenyl]- (CA INDEX NAME)



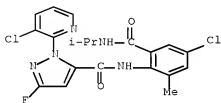
RN 500010-80-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



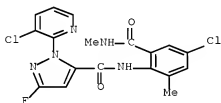
RN 500011-33-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[1-(3-chloro-2-pyridinyl)-3-fluoro-1-methylethyl]amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



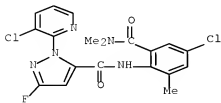
RN 500011-35-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



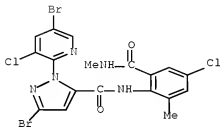
RN 500011-36-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



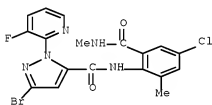
RN 500011-53-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(5-bromo-3-chloro-2-pyridinyl)-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



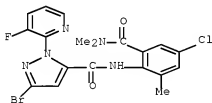
RN 500011-77-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)



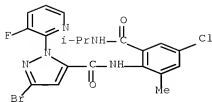
RN 500011-78-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(dimethylamino)carbonyl]-6-methylphenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)

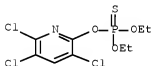


RN 500011-79-0 HCAPLUS

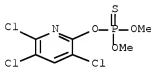
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[[1-methylethyl]amino]carbonyl]phenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)



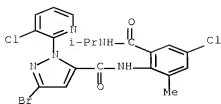
IT 2921-88-2, Chlorpyrifos 5598-13-0,  
 Chlorpyrifos-methyl  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (in insecticidal compns. containing anthranilamide compds.)  
 RN 2921-88-2 HCAPLUS  
 CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



RN 5598-13-0 HCAPLUS  
 CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)

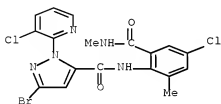


IT 500008-44-6P 500008-45-7P 500008-60-6P  
 500008-62-8P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (preparation of anthranilamide compds. as insecticides)  
 RN 500008-44-6 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[[1-  
 methylethyl]amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX  
 NAME)



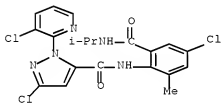
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



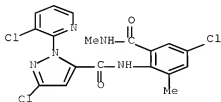
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



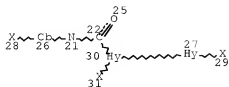
RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-chloro-2-pyridinyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

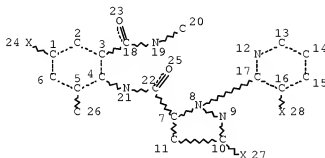
=> => d stat que l28  
L1 STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY AT 26  
GGCAT IS MCY AT 27  
GGCAT IS MCY AT 30  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE  
L2 705 SEA FILE=REGISTRY SSS FUL L1  
L5 105 SEA FILE=REGISTRY ABB=ON PLU=ON CHLORPYRIFOS/BI  
L6 14 SEA FILE=REGISTRY ABB=ON PLU=ON METHIOCARB/BI  
L8 11745 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ?CHLORPYRIF?  
L9 1404 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 OR ?METHIOCARB?  
L20 STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE  
L21 170 SEA FILE=REGISTRY SUB=L2 SSS FUL L20  
L22 164 SEA FILE=HCAPLUS ABB=ON PLU=ON L21

L23 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND L8 AND L9  
 L24 16 SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 AND (L8 OR L9)) NOT L23  
 L25 535 SEA FILE=REGISTRY ABB=ON PLU=ON L2 NOT L21  
 L26 30 SEA FILE=HCAPLUS ABB=ON PLU=ON L25  
 L28 1 SEA FILE=HCAPLUS ABB=ON PLU=ON (L26 AND (L8 OR L9)) NOT (L23  
 OR L24)

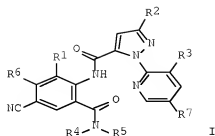
=> d ibib abs hitstr 128 1

L28 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:648522 HCAPLUS Full-text  
 DOCUMENT NUMBER: 141:190786  
 TITLE: Preparation of cyano anthranilamide insecticides  
 Hughes, Kenneth Andrew; Lahm, George Philip; Selby,  
 Thomas Paul; Stevenson, Thomas Martin  
 INVENTOR(S):  
 PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA  
 SOURCE: PCT Int. Appl., 63 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067528	A1	20040812	WO 2004-US3568	20040121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
AU 2004207848	A1	20040812	AU 2004-207848	20040121
CA 2512242	A1	20040812	CA 2004-2512242	20040121
EP 1599463	A1	20051130	EP 2004-704148	20040121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
MD 2005000219	A	20051130	MD 2005-219	20040121
BR 2004006709	A	20051220	BR 2004-6709	20040121
JP 3764895	B1	20060412	JP 2005-518229	20040121
JP 2006515602	T	20060601		
CN 1829707	A	20060906	CN 2004-80002991	20040121
ZA 2005005310	A	20060927	ZA 2005-5310	20040121
NZ 541112	A	20080131	NZ 2004-541112	20040121
EG 23536	A	20060419	EG 2004-49	20040127
JP 2006028159	A	20060202	JP 2005-148184	20050520
JP 3770500	B2	20060426		
JP 2006290862	A	20061026	JP 2005-148201	20050520
US 20060111403	A1	20060525	US 2005-540966	20050629
US 7247647	B2	20070724		
MX 2005PA07924	A	20050930	MX 2005-PA7924	20050726
KR 2007036196	A	20070402	KR 2007-706234	20070319
US 20070264299	A1	20071115	US 2007-811105	20070608
PRIORITY APPLN. INFO.:			US 2003-443256P	P 20030128
			JP 2005-518229	A3 20040121
			WO 2004-US3568	W 20040121
			KR 2005-700059	A3 20050103
			US 2005-540966	A3 20050629

OTHER SOURCE(S): MARPAT 141:190786

GI



I

AB The title compds. [I; R1 = Me, Cl, Br, F; R2 = F, Cl, Br, haloalkyl or haloalkoxy; R3 = F, Cl, Br; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, each optionally substituted with one substituent selected from the group consisting of halo, CN, SMe S(O)Me, S(O)2Me and OMe; R5 = H, Me; R6 = H, F, Cl; R7 = H, F, Cl], useful for controlling an invertebrate pest, were prepared. E.g., a multi-step synthesis of compound I [R1 = Me; R2 = CF3; R3 = Cl; R4, R5 = H], was given. The compds. I were tested in various biol. tests (data given). This invention also pertains to a composition for controlling an invertebrate pest comprising a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound I and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

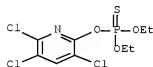
IT 2921-88-2, Chlorpyrifos 5598-13-0,  
Chlorpyrifosmethyl

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(co-administration; preparation of cyano anthranilamide insecticides for

use in combination with other biol. active compds.)

RN 2921-88-2 HCAPLUS

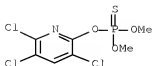
CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



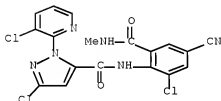
RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

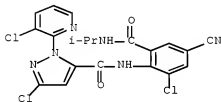




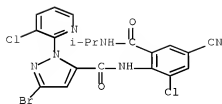
IT 736994-65-3P 736994-66-4P 736994-67-5P  
 736994-68-6P 736994-69-7P 736994-70-0P  
 736994-71-1P 736994-72-2P 736994-73-3P  
 736994-74-4P 736994-75-5P 736994-76-6P  
 736995-10-1P 736995-32-7P 736995-33-8P  
 736995-34-9P 736995-51-0P 736995-52-1P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (preparation of cyano anthranilamide insecticides)  
 RN 736994-65-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[2-chloro-4-cyano-6-  
 [(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 736994-66-4 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[2-chloro-4-cyano-6-[(1-  
 methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX  
 NAME)

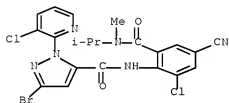


RN 736994-67-5 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-chloro-4-cyano-6-[(1-  
 methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX  
 NAME)



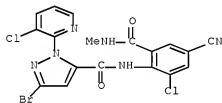
RN 736994-68-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-chloro-4-cyano-6-[[methyl(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



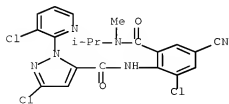
RN 736994-69-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-chloro-4-cyano-6-[[methyl(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



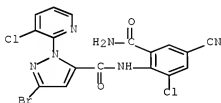
RN 736994-70-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[2-chloro-4-cyano-6-[[methyl(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



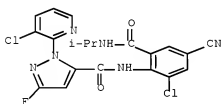
RN 736994-71-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[2-(aminocarbonyl)-6-chloro-4-cyanophenyl]-3-bromo-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



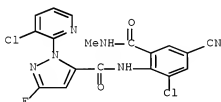
RN 736994-72-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[2-chloro-4-cyano-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



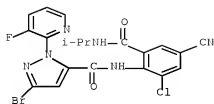
RN 736994-73-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[2-chloro-4-cyano-6-[(1-methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



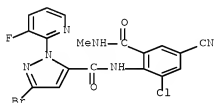
RN 736994-74-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-chloro-4-cyano-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)



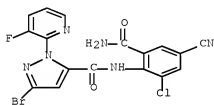
RN 736994-75-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-chloro-4-cyano-6-(methylamino)carbonylphenyl]-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)



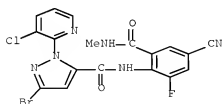
RN 736994-76-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[2-(aminocarbonyl)-6-chloro-4-cyanophenyl]-3-bromo-1-(3-fluoro-2-pyridinyl)- (CA INDEX NAME)



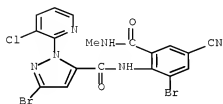
RN 736995-10-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-fluoro-6-(methylamino)carbonylphenyl]- (CA INDEX NAME)



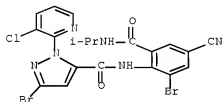
RN 736995-32-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-bromo-4-cyano-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



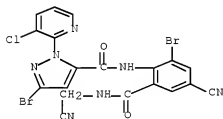
RN 736995-33-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-bromo-4-cyano-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



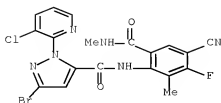
RN 736995-34-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-bromo-4-cyano-6-[[[(cyanomethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



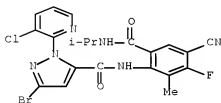
RN 736995-51-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-3-fluoro-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



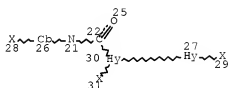
RN 736995-52-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-3-fluoro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



=> => d stat que 147

L1 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY AT 26

GGCAT IS MCY AT 27

GGCAT IS MCY AT 30

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L2 705 SEA FILE=REGISTRY SSS FUL L1

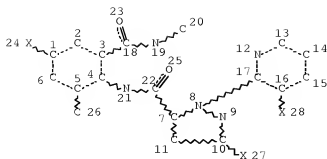
L5 105 SEA FILE=REGISTRY ABB=ON PLU=ON CHLORPYRIFOS/BI

L6 14 SEA FILE=REGISTRY ABB=ON PLU=ON METHIOCARB/BI

L8 11745 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ?CHLORPYRIF?

L9 1404 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 OR ?METHIOCARB?

L20 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

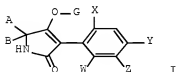
L21	170	SEA FILE=REGISTRY SUB=L2	SSS FUL	L20
L22	164	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L21
L23	8	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L22 AND L8 AND L9
L24	16	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L22 AND (L8 OR L9)) NOT L23
L25	535	SEA FILE=REGISTRY ABB=ON	PLU=ON	L2 NOT L21
L26	30	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L25
L28	1	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L26 AND (L8 OR L9)) NOT (L23 OR L24)
L29	77	SEA FILE=HCAPLUS ABB=ON	PLU=ON	("FUNKE C"/AU OR "FUNKE C W"/AU) OR "FUNKE CHRISTIAN"/AU
L30	1494	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"FISCHER REINER"/AU OR FISCHER R/AU OR FISCHER R ?/AU
L31	1270	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"FISCHER RUDIGER"/AU OR FISCHER R/AU OR FISCHER R ?/AU
L32	73	SEA FILE=HCAPLUS ABB=ON	PLU=ON	("HUNGENBERG H"/AU OR "HUNGENBERG HEIKE"/AU)
L33	103	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"ANDERSCH W"/AU OR "ANDERSCH WOLFRAM"/AU
L34	80	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"THIELERT W"/AU OR "THIELERT WOLFGANG"/AU
L35	304	SEA FILE=HCAPLUS ABB=ON	PLU=ON	("KRAUS ANTON"/AU OR "KRAUS ANTON DIPL ING"/AU) OR KRAUS A/AU OR KRAUS A ?/AU
L36	23	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L29 AND ((L30 OR L31) OR L33 OR L34 OR L35)
L37	35	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L30 OR L31) AND (L33 OR L34 OR L35)
L38	32	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L33 AND (L34 OR L35)
L40	11	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L29 OR L30 OR L32 OR L33 OR L34 OR L35) AND (L22 OR L26)
L44	342	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L8 AND L9
L45	9	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L29 OR L30 OR L32 OR L33 OR L34 OR L35) AND L44
L47	72	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L36 OR L37 OR L38 OR L38 OR L40 OR L45) NOT (L23 OR L24 OR L28)

=&gt; d ibib abs hitstr 147 1-72

L47 ANSWER 1 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2008:187898 HCAPLUS Full-text  
 DOCUMENT NUMBER: 148:208229  
 TITLE: Enhancement of the pesticidal activity of  
 phenyltetramic acid derivs. by fertilizers  
 Andersch, Wolfram; Fischer, Feiner; Hungenberg,  
 Heike; Marczuk, Peter; Pontzen, Rolf; Reckmann, Udo;  
 Van Waetermeulen, Xavier Alain Marie; Kuehnhold,  
 Juergen; Bell, John; Krueger, Stephen; Hinz, John  
 INVENTOR(S): Bayer Cropscience AG, Germany  
 PATENT ASSIGNEE(S): PCT Int. Appl., 40pp.  
 SOURCE: CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008017388	A1	20080214	WO 2007-EP6649	20070727
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1886564	A1	20080213	EP 2006-16607	20060809
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			

PRIORITY APPLN. INFO.: EP 2006-16607 A 20060809  
 OTHER SOURCE(S): MARPAT 148:208229  
 GI



AB The pesticidal activity of phenyltetramic acids I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, alkoxyalkyl, etc.; B = H or alkyl; ACB = ring; G, H. C(O)R1, etc.; R1 = (halo)alkyl, (halo)alkenyl, etc.] is enhanced by ammonium nitrate and/or urea fertilizers.  
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



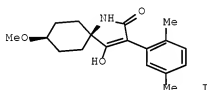
L47 ANSWER 2 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2008:99185 HCAPLUS Full-text  
 DOCUMENT NUMBER: 148:137634  
 TITLE: Insecticidal and acaricidal combinations containing cyclic ketoenols  
 INVENTOR(S): Fischer, Reiner; Andersch, Wolfram; Bretschneider, Thomas; Kraus, Anton; Hungenberg, Heike; Malsam, Olga  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: PCT Int. Appl., 53pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008009379	A2	20080124	WO 2007-EP6133	20070711
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102006033154	A1	20080124	DE 2006-102006033154	20060718
PRIORITY APPLN. INFO.:			DE 2006-102006033154A	20060718
OTHER SOURCE(S):	MARPAT 148:137634			
AB Novel combinations of known cyclic ketoenols with $\geq 1$ compound selected from cyenopyrafen, cyflumetofen, and IKA 2002 have excellent insecticide and/or acaricide properties. Thus, a synergistic mixture of cyflumetofen + spiromesifen at 100 + 100 g/ha caused 90% mortality of Myzus persicae on cabbage leaves after 6 days, whereas mortality rates with cyflumetofen alone and with spiromesifen alone, each at 100 g/ha, were 0% and 70%, resp.				

L47 ANSWER 3 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2008:69964 HCAPLUS Full-text  
 DOCUMENT NUMBER: 148:114889  
 TITLE: Insecticides and acaricides containing azaspirodecenone derivatives and pyrethroids  
 INVENTOR(S): Fischer, Reiner; Andersch, Wolfram; Koenig, Thomas; Kraus, Anton; Salmon, Emmanuel; Hungenberg, Heike  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: PCT Int. Appl., 42pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

-----  
 WO 2008006514 A1 20080117 WO 2007-EP5995 20070706  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,  
 CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,  
 GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,  
 KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,  
 MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,  
 PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,  
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM  
 DE 102006031974 A1 20080117 DE 2006-102006031974 20060711  
 PRIORITY APPLN. INFO.: DE 2006-102006031974 20060711  
 GI



AB Combinations of I or its ethoxycarbonyl derivative (II) with  $\geq 1$  of 23 other active ingredients have excellent insecticidal and acaricidal properties. Thus, a synergistic mixture of II +  $\beta$ -cyfluthrin at 0.8 + 0.0064 g/ha caused 80% mortality of Myzus persicae on cabbage leaves after 6 days, whereas when the same rates of II alone or  $\beta$ -cyfluthrin alone were applied, mortality was only 20% and 0%, resp., after 6 days.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 4 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:69947 HCAPLUS Full-text

DOCUMENT NUMBER: 148:114888

TITLE: Insecticidal and acaricidal combinations containing azaspirodecenone derivatives

INVENTOR(S): Fischer, Feiner; Andersch, Wolfram; Koenig, Thomas; Kraus, Anton; Salmon, Emmanuel; Hungenberg, Heike

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 49pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2008006513	A1	20080117	WO 2007-EP5994	20070706

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

DE 102006031975

A1 20080117

DE 2006-102006031975

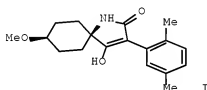
20060711

PRIORITY APPLN. INFO.:

DE 2006-102006031975A

20060711

GI



AB Combinations of I or its ethoxycarbonyl derivative with  $\geq 1$  of 26 other active ingredients have excellent insecticidal and acaricidal properties. Thus, a synergistic mixture of I + spinosad at 100 + 100 ppm caused 95% mortality of *Aphis gossypii* on cotton leaves after 6 days whereas when the same rates of spinosad and a mixture of the cis and trans isomers of I were combined, mortality was only 70% after 6 days.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 5 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:69884 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 148:114887

TITLE: Insecticidal and acaricidal combinations of azaspirodecenone derivatives and nicotinic agonists or antagonists

INVENTOR(S): Fischer, Rainer; Andersch, Wolfram; Koenig, Thomas; Kraus, Anton; Salmon, Emmanuel; Hungenberg, Heike

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 41pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008006516	A1	20080117	WO 2007-EP5997	20070706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				

CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,  
 GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,  
 KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,  
 MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,  
 PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,  
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM

DE 102006031973

A1 20080117

DE 2006-102006031973

20060711

PRIORITY APPLN. INFO.:

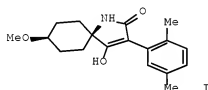
DE 2006-102006031973A

20060711

OTHER SOURCE(S):

MARPAT 148:114887

GI



AB Combinations of I or its ethoxycarbonyl derivative and certain agonists or antagonists of nicotinic acetylcholine receptors have excellent insecticidal and/or acaricidal properties. Thus, a synergistic mixture of I and imidacloprid at 0.8 + 0.032 ppm caused 85% mortality of *Myzus persicae* on cotton leaves after 6 days. When a mixture of the cis and trans isomers of I at 0.8 ppm + 0.032 ppm imidacloprid was used, mortality after 6 days was only 5%.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 6 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:69199 HCAPLUS Full-text

DOCUMENT NUMBER: 148:114886

TITLE: Insecticidal and acaricidal combinations containing azaspirodecenone derivatives

INVENTOR(S): Fischer, Rainer; Andersch, Wolfram; Koenig, Thomas; Kraus, Anton; Salmon, Emmanuel; Hungenberg, Heike

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 51pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

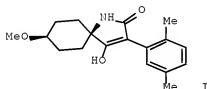
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

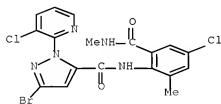
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008006512	A1	20080117	WO 2007-EP5993	20070706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				

CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,  
 GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,  
 KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,  
 MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,  
 PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,  
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM

DE 102006031978 A1 20080117 DE 2006-102006031978 20060711  
 PRIORITY APPLN. INFO.: DE 2006-102006031978A 20060711  
 GI



- AB Novel combinations of I or its ethoxycarbonyl derivative and  $\geq 1$  of 30 other active ingredients have excellent insecticidal and acaricidal properties. Thus, I + lufenuron at 100 + 100 ppm synergistically controlled Spodoptera frugiperda larva on infested cabbage leaves, with 100% mortality after 2 days. In contrast, when the same rates of lufenuron and a mixture of the cis and trans isomers of I were combined, mortality was only 80% after 2 days.
- IT 500008-45-7, Rynaxypyr 1000984-26-8 1000984-34-8  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (as synergistic insecticide and acaricide)
- RN 500008-45-7 HCAPLUS
- CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



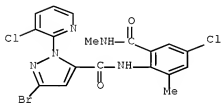
- RN 1000984-26-8 HCAPLUS
- CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-, mixt. with cis-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-

one (CA INDEX NAME)

CM 1

CRN 500008-45-7

CMF C18 H14 Br Cl2 N5 O2

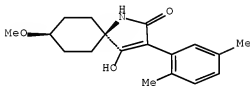


CM 2

CRN 203312-38-3

CMF C18 H23 N O3

Relative stereochemistry.



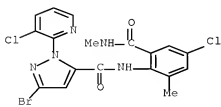
RN 1000984-34-8 HCAPLUS

CN Carbonic acid, cis-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-  
 azaspiro[4.5]dec-3-en-4-yl ethyl ester, mixt. with 3-bromo-N-[4-chloro-2-  
 methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-  
 pyrazole-5-carboxamide (CA INDEX NAME)

CM 1

CRN 500008-45-7

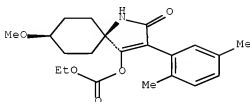
CMF C18 H14 Br Cl2 N5 O2



CM 2

CRN 203313-25-1  
 CMF C21 H27 N O5

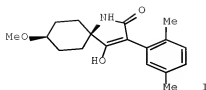
Relative stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 7 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2008:68935 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 148:114885  
 TITLE: Insecticidal and acaricidal combinations containing azaspirodecenone derivatives  
 INVENTOR(S): Fischer, Reiner; Andersch, Wolfram; Koenig, Thomas; Kraus, Anton; Salmon, Emmanuel; Hungenberg, Heike  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: PCT Int. Appl., 31pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008006515	A1	20080117	WO 2007-EP5996	20070706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102006031976 A1 20080117 DE 2006-102006031976 20060711 PRIORITY APPLN. INFO.: DE 2006-102006031976A 20060711 GI				



AB Active ingredient combinations with excellent insecticidal and acaricidal properties contain I or its ethoxycarbonyl derivative (II) and 21 of the following active ingredients: amitraz, buprofezin, pymetrozin, pyriproxyfen, NNI 0101, and flonicamid. Thus, after 1 day, a synergistic mixture of II and flonicamid at 20 + 100 g/ha caused 90% mortality of *Myzus persicae* on cabbage leaves, whereas flonicamid alone at 100 g/ha caused only 30% mortality and II alone at 20 g/ha resulted in 0% mortality.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 8 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:39252 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 148:114878

TITLE: Synergistic insecticide and fungicide mixtures  
INVENTOR(S): Suty-Heinze, Anne; Schuetz, Burkhard; Dahmen, Peter;

Gayer, Herbert; Hungenberg, Reike; Thiele, Wolfgang  
PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 60pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008003403	A2	20080110	WO 2007-EP5460	20070621
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

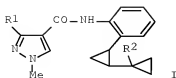
DE 102006030710 A1 20080110 DE 2006-102006030710 20060703

PRIORITY APPLN. INFO.: DE 2006-102006030710A 20060703

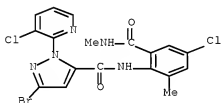
OTHER SOURCE(S): MARPAT 148:114878

GI





- AB The title combinations consist of  $\geq 2$  fungicidal components, including (A)  $\geq 1$  compound I ( $R_1 = \text{CHF}_2, \text{CF}_3$ ;  $R_2 = \text{H, Me}$ ) and (B)  $\geq 1$  compound selected from carpropamid, pyroquilon, tricyclazole, BYF 1047, diclocymet, and  $\geq 1$  insecticide (C) selected from chloronicotinyl compds., rynaxypyr, fipronil, or ethiprole. The active ingredient combinations are very good at controlling undesired phytopathogenic fungi and for controlling animal pests, in particular in rice, and are particularly suitable for treating seeds. A mixture of I ( $R_1 = \text{CHF}_2, R_2 = \text{H}$ ) + mfenoxam + thiamethoxam at  $200 + 200 + 0.16$  ppm synergistically controlled *Phaedon cochleariae* larvae on cabbage leaves.
- IT 500008-45-7D, Rynaxypyr, mixts. containing  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (synergistic insecticide and fungicide mixts.)
- RN 500008-45-7 HCAPLUS
- CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L47 ANSWER 9 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:6245 HCAPLUS Full-text

DOCUMENT NUMBER: 148:71833

TITLE: Synergistic insecticide and fungicide mixtures

INVENTOR(S): Suty-Heinze, Anne; Schuetz, Burkhard; Dahmen, Peter; Hungenberg, Heike; Thielert, Wolfgang; Gayer, Herbert

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 64pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008000377	A2	20080103	WO 2007-EP5406	20070620
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				

CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

DE 102006030739 A1 20080103

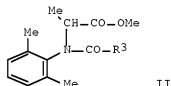
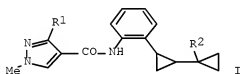
DE 2006-102006030739 20060630

PRIORITY APPLN. INFO.:

DE 2006-102006030739A 20060630

OTHER SOURCE(S): MARPAT 148:71833

GI



II

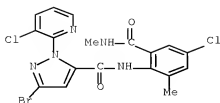
AB The invention relates to combinations of active agents, comprising at least two fungicidal components A and B and at least one insecticidal component C. A, B and C can be selected from the following: (A) the pyrazole derivative I (R1 = F2CH or F3C; R2 = H or Me); (B) an acylalanine derivative fungicide II (R3 = benzyl, furyl or methoxymethyl; \* = carbon in the R- or S-configuration, the S-configuration being preferred), fludioxonil or azoxystrobin; and (C) a chloronicotinyln derivative, rynaxypyr, fipronil or tefluthrin, etc. The combinations are particularly suitable for the treatment of seeds.

IT 500008-45-7D, Rynaxypyr, mixts. containing

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticide and fungicide compns.)

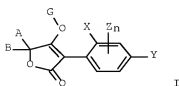
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L47 ANSWER 10 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1455175 HCAPLUS Full-text  
 DOCUMENT NUMBER: 148:25743  
 TITLE: Insecticidal and acaricidal combinations of cyclic ketoenols with natural pest enemies  
 INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Hungenberg, Heike; Nauen, Ralf; Schulte, Thomas; Schnorbach, Hans-Juergen; Thielert, Wolfgang; Melgarejo, Jairo  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: PCT Int. Appl., 34pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007144087	A1	20071221	WO 2007-EP4964	20070605
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102006027732 A1 20080110 DE 2006-102006027732 20060616 PRIORITY APPLN. INFO.: DE 2006-102006027732A 20060616 OTHER SOURCE(S): MARPAT 148:25743 GI				



AB Active agent combinations consist of cyclic ketoenols I [X = halo or (halo)alkyl; Y = H, halo, (halo)alkyl or alkoxy; Z = halo alkyl or alkoxy; n = 0, 1-3; A = H, (halo)alkyl, alkenyl, etc.; B = H, alkyl or alkoxyalkyl; ACB = ring; G = H, C(O)R1, etc.; R1 = (halo)alkyl, alkenyl, etc.] and beneficial organisms (natural enemies), have very good insecticidal and/or acaricidal properties.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 11 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1446240 HCAPLUS Full-text

DOCUMENT NUMBER: 148:25737

TITLE: Insecticidal and acaricidal compositions comprising a cyclic ketoenol and natural pest enemies

INVENTOR(S): Fischer, Reiner; Hungenberg, Heike; Nauen, Ralf; Schnorbach, Hans-Juergen; Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: Ger. Offen., 19pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

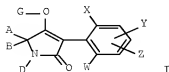
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006027731	A1	20071220	DE 2006-102006027731	20060616
WO 2007144086	A1	20071221	WO 2007-EP4963	20070605
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006027731A 20060616

OTHER SOURCE(S): MARPAT 148:25737

GI



AB Insecticidal and acaricidal compns. comprise a cyclic ketoenol I [X = halo, (halo)alkyl, (halo)alkoxy or CN; X, Y, Z = H or X; A = H, (halo)alkyl, alkoxyalkyl, etc.; B = H or alkyl; ACB = ring; D = H, (un)substituted alkyl, alkenyl, etc.; ACND = ring; G = H, C(O)R1, etc.; R1 = (halo)alkyl alkenyl, etc.] and natural pest enemies.

L47 ANSWER 12 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1330960 HCAPLUS Full-text

DOCUMENT NUMBER: 147:516451

TITLE: Synergistic insecticidal and fungicidal compositions comprising 4-([6-chloro-3-pyridinyl)methylamino]-2,5-dihydro-2-furanone derivatives

INVENTOR(S): Jeschke, Peter; Velten, Robert; Schenke, Thomas; Andersch, Wolfram; Hungenberg, Heike; Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: Ger. Offen., 70pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006023263	A1	20071122	DE 2006-102006023263	20060518
WO 2007134778	A2	20071129	WO 2007-EP4375	20070516

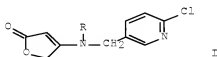
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: DE 2006-102006023263A 20060518

OTHER SOURCE(S): MARPAT 147:516451

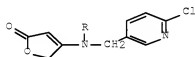
GI



AB Synergistic insecticidal and fungicidal compns. comprising 4-([6-chloro-3-pyridinyl)methylamino]-2,5-dihydro-2-furanone derivs. I (R = Me or cyclopropyl) and any of a very large number of known pesticides.

L47 ANSWER 13 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1145439 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:421323  
 TITLE: Synergistic insecticidal compositions comprising thiamethoxam  
 INVENTOR(S): Hungenberg, Heike; Jeschke, Peter; Velten, Robert; Schenke, Thomas; Andersch, Wolfram; Thieleert, Wolfgang  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: PCT Int. Appl., 33 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007/112895	A1	2007/1011	WO 2007-EP2725	2007/0328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102006014486 PRIORITY APPLN. INFO.: DE 2006-102006014486 20060329 GI DE 2006-102006014486A 20060329				



AB Synergistic insecticidal compns. comprise thiamethoxam and I (R = Me or cyclopropyl).  
 REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 14 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1121153 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:399923  
 TITLE: Synergistic insecticidal compositions comprising anthranilamides  
 INVENTOR(S): Funke, Christian; Fischer, Ruediger; Fischer, Reiner; Thieleert, Wolfgang; Kraus, Anton; Hungenberg, Heike  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 65pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006042437	A1	20071004	DE 2006-102006042437	20060909
WO 2007112893	A2	20071011	WO 2007-EP2722	20070328
WO 2007112893	A3	20080424		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: DE 2006-102006014779IA 20060330  
 DE 2006-102006042437A 20060909

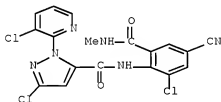
AB Comps. comprising at least one anthranilamide and at least one addnl. active substance selected from insecticides, nematocides, fungicides, bactericides and acaricides show a synergistic effect (no data).

IT 736994-65-3D, mixts. containing

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic insecticidal comps.)

RN 736994-65-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[2-chloro-4-cyano-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L47 ANSWER 15 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1120346 HCAPLUS Full-text

DOCUMENT NUMBER: 147:399921

TITLE: Synergistic insecticidal and acaricidal compositions comprising thiamethoxam

INVENTOR(S): Hungenberg, Heike; Jeschke, Peter; Velten, Robert; Schenke, Thomas; Andersen, Wolfram; Thielert, Wolfgang

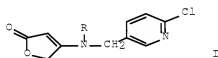
PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 13pp.  
 CODEN: GWXXBX

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014486	A1	20071004	DE 2006-102006014486	20060329
WO 2007112895	A1	20071011	WO 2007-EP2725	20070328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006014486A 20060329  
 GI



AB Synergistic insecticidal and acaricidal composition comprise thiamethoxam and I (R = Me or cyclopropyl).

L47 ANSWER 16 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1118325 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 147:399920  
 TITLE: Synergistic insecticidal and acaricidal compositions comprising pyrethroids  
 INVENTOR(S): Jeschke, Peter; Velten, Robert; Schenke, Thomas; Andersch, Wolfram; Hungenberg, Heike; Thielert, Wolfgang  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: Ger. Offen., 23pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014490	A1	20071004	DE 2006-102006014490	20060329
WO 2007112846	A1	20071011	WO 2007-EP2391	20070319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				



CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,  
 GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,  
 KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK,  
 MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,  
 RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,  
 TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM

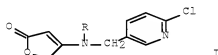
PRIORITY APPLN. INFO.:

DE 2006-102006014490A 20060329

OTHER SOURCE(S):

MARPAT 147:399920

GI



AB Synergistic insecticidal and acaricidal compns. comprise pyrethroids and I (R = Me or cyclopropyl).

L47 ANSWER 17 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1118302 HCAPLUS Full-text

DOCUMENT NUMBER: 147:399919

TITLE: Synergistic insecticidal and acaricidal compositions comprising clothianidin

INVENTOR(S): Hungenberg, Heike; Jeschke, Peter; Velten, Robert; Schenke, Thomas; Andersch, Wolfram; Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 12pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent  
 LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014487	A1	20071004	DE 2006-102006014487	20060329
WO 2007112894	A1	20071011	WO 2007-EP2724	20070328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,				
GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,				
KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK,				
MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,				
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,				
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				
IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,				
GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,				

BY, KG, KZ, MD, RU, TJ, TM

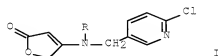
PRIORITY APPLN. INFO.:

DE 2006-102006014487A 20060329

OTHER SOURCE(S):

MARPAT 147:399919

GI



AB A synergistic insecticidal and acaricidal composition comprises clothianidin and I (R = Me or cyclopropyl).

L47 ANSWER 18 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1118219 HCAPLUS Full-text

DOCUMENT NUMBER: 147:379867

TITLE: Synergistic insecticidal and acaricidal compositions comprising tetronic or tetramic acids

INVENTOR(S): Hungenberg, Heike; Jeschke, Peter; Fischer, Reiner; Velten, Robert; Schenke, Thomas; Andersch, Wolfram; Thieiert, Wolfgang

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 15pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014480	A1	20071004	DE 2006-102006014480	20060329
WO 2007112845	A1	20071011	WO 2007-EP2390	20070319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

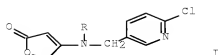
PRIORITY APPLN. INFO.:

DE 2006-102006014480A 20060329

OTHER SOURCE(S):

MARPAT 147:379867

GI

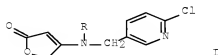


AB The title compns. comprise spirotetramate, spiroidiclofen or spiromesifen derivs. in mixture with I (R= Me or cyclopropyl).

L47 ANSWER 19 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1118190 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:379866  
 TITLE: Synergistic insecticidal and acaricidal compositions  
 INVENTOR(S): Hungenberg, Heike; Jeschke, Peter; Velten, Robert;  
 Schenke, Thomas; Andersch, Wolfram; Thielert, Wolfgang  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: Ger. Offen., 22pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014481	A1	20071004	DE 2006-102006014481	20060329
WO 2007112843	A1	20071011	WO 2007-EP2387	20070319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006014481A 20060329  
 GI

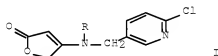


AB The title compns. comprise I (R = Me or cyclopropyl) and benzoylurea derivs., chitin synthesis inhibitors or other classes of known insecticides.

L47 ANSWER 20 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1117821 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:399916  
 TITLE: Synergistic insecticidal and acaricidal compositions  
 Hungenberg, Heike; Jeschke, Peter; Fischer,  
 Ruediger; Velten, Robert; Schenke, Thomas; Andersch,  
 Wolfram; Thielert, Wolfgang  
 INVENTOR(S): Bayer CropScience A.-G., Germany  
 Ger. Offen., 19pp.  
 PATENT ASSIGNEE(S):  
 SOURCE: CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014482	A1	20071004	DE 2006-102006014482	20060329
WO 2007112847	A2	20071011	WO 2007-EP2394	20070319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006014482A 20060329  
 GI



AB Comps. comprising I (R = Me or cyclopropyl) and at least one addnl. known insecticide, such as benzodicycarboxylic acids, macrolides, diacylhydrazines, carboxylates or others, are synergistic insecticides and acaricides.

IT 950998-42-2 950998-53-5

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic insecticidal and acaricidal composition)

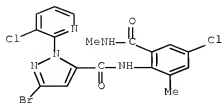
RN 950998-42-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-, mixt. with 4-[[[(6-chloro-3-pyridinyl)methyl]methylamino]-2(5H)-furanone] (CA INDEX NAME)

CM 1

CRN 500008-45-7

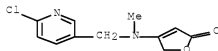
CMF C18 H14 Br Cl2 N5 O2



CM 2

CRN 141453-42-1

CMF C11 H11 Cl N2 O2



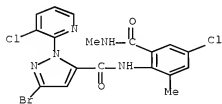
RN 950998-53-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-, mixt. with 4-[[ (6-chloro-3-pyridinyl)methyl]cyclopropylamino]-2(5H)-furanone (CA INDEX NAME)

CM 1

CRN 500008-45-7

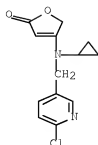
CMF C18 H14 Br Cl2 N5 O2



CM 2

CRN 141453-45-4

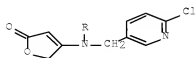
CMF C13 H13 Cl N2 O2



L47 ANSWER 21 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1117815 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:399915  
 TITLE: Synergistic insecticidal and acaricidal compositions comprising organophosphate and carbamate derivatives Hungenberg, Heike; Jeschke, Peter; Velten, Robert; Schenke, Thomas; Andersch, Wolfram; Thielert, Wolfgang  
 INVENTOR(S):  
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
 SOURCE: Ger. Offen., 33pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014489	A1	20071004	DE 2006-102006014489	20060329
WO 2007112848	A2	20071011	WO 2007-EP2395	20070319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006014489A 20060329  
 GI



AB Synergistic insecticidal and acaricidal compns. comprise known organophosphate and carbamate insecticides in combination with I (R = Me or cyclopropyl).

L47 ANSWER 22 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1033284 HCAPLUS Full-text

DOCUMENT NUMBER: 147:337739

TITLE: Insecticidal and acaricidal combinations of

INVENTOR(S): phthalamide derivatives and pyrethroids  
Fischer, Ruediger; Funke, Christian; Hungenberg,  
Heike; Thielert, Wolfgang; Kraus, Anton; Kodama,  
Hiroshi; Tamura, Shingo; Hakuno, Fumiaki

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 42pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007/101539	A2	20070913	WO 2007-EP1457	20070221
WO 2007/101539	A3	20080320		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA DE 102006010205 A1 20070913 DE 2006-102006010205 20060306 DE 2006-102006010205A 20060306				

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 147:337739

AB Mixts. with excellent insecticidal and acaricidal properties contain  $\geq 1$  compound such as (S)-3-chloro-N1-(2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl)-N2-(1-methyl-2-methylsulfonyl)phthalimide (I) and  $\geq 1$  pyrethroid. Thus, I + bifenthrin at 20 + 0.8 ppm synergistically controlled *Aphis gossypii* on cotton (*Gossypium herbaceum*) leaves.

L47 ANSWER 23 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1033268 HCAPLUS Full-text

DOCUMENT NUMBER: 147:337738

TITLE: Selective insecticides based on phthalic acid diamides and safeners

INVENTOR(S): Fischer, Ruediger; Funke, Christian; Fischer,  
Reiner; Andersch, Wolfram; Thielert, Wolfgang;  
Hungenberg, Heike; Arnold, Christian

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 55pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007/101543	A2	20070913	WO 2007-EP1462	20070221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102006010203	A1	20070913	DE 2006-102006010203	20060306
PRIORITY APPLN. INFO.:			DE 2006-102006010203A 20060306	
OTHER SOURCE(S):			MARPAT 147:337738	

AB Mixts. excellent insecticidal properties contain  $\geq 1$  active ingredient such as (S)-3-chloro-N1-(2-methyl-4-(1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl)phenyl)-N2-(1-methyl-2- methylsulfonyl)ethyl)phthalamide (I) and  $\geq 1$  compound that improves the cultivated plant compatibility. Thus, I + isoxadifen-Et at 0.16 + 100 ppm caused 100% mortality of cotton bollworm (*Helicoverpa armigera*) larvae on cotton (*Gossypium herbaceum*) after 3 days; the effect of the components was synergistic.

L47 ANSWER 24 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1033109 HCAPLUS Full-text

DOCUMENT NUMBER: 147:337737

TITLE: Pesticidal mixtures containing cyclic ketoenols and(or) tetrionic acid derivatives and phthalic acid diamides

INVENTOR(S): Fischer, Ruediger; Fischer, Reiner; Funke, Christian; Bretschneider, Thomas; Hungenberg, Heike; Thielert, Wolfgang; Kraus, Anton; Kodama, Hiroshi; Tamura, Shingo; Hakuno, Fumiaki

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 50pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007/101546	A2	20070913	WO 2007-EP1465	20070221
WO 2007/101546	A3	20080306		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,				



RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,  
 TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

DE 102006010208 A1 20070913 DE 2006-102006010208 20060306

PRIORITY APPLN. INFO.: DE 2006-102006010208A 20060306

OTHER SOURCE(S): MARPAT 147:337737

AB Mixts. with excellent insecticidal and acaricidal properties consist of specific cyclic ketoenols (such as spirotetramat) and/or tetrionic acid derivs. (such as spiromesifen) and phthalic acid diamides like (S)-3-chloro-N1-(2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl)-N2-(1-methyl-2-methylsulfonyl)ethylphthalamide (I). Thus, I + spirotetramat at 4 + 0.8 ppm synergistically controlled Aphis gossypii on cotton (Gossypium herbaceum), with 75% mortality after 6 days.

L47 ANSWER 25 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1033104 HCAPLUS Full-text

DOCUMENT NUMBER: 147:337736

TITLE: Insecticidal and acaricidal mixtures containing phthalamide derivatives

INVENTOR(S): Fischer, Ruediger; Funke, Christian; Hungenberg, Heike; Thieleert, Wolfgang; Kraus, Anton; Kodama, Hiroshi; Tamura, Shingo; Hakuno, Fumiaki

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 26pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007101601	A2	20070913	WO 2007-EP1752	20070301
WO 2007101601	A3	20080320		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			

DE 102006010211 A1 20070913 DE 2006-102006010211 20060306

PRIORITY APPLN. INFO.: DE 2006-102006010211A 20060306

OTHER SOURCE(S): MARPAT 147:337736

AB Mixts. with excellent insecticidal and acaricidal properties contain  $\geq 1$  phthalamide derivative such as (S)-3-chloro-N1-(2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl)-N2-(1-methyl-2-methylsulfonyl)ethylphthalamide (I) and  $\geq 1$  component selected from propargite,

fenbutatin oxide, diafenthiuron, and etoxazole. Thus, I + propargite at 100 + 4 ppm synergistically controlled Myzus persicae on cabbage leaves.

L47 ANSWER 26 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1030384 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:337735  
 TITLE: Insecticidal mixtures containing phthalamide derivatives and insect growth regulators  
 INVENTOR(S): Fischer, Ruediger; Funke, Christian; Hungenberg, Heike; Thielert, Wolfgang; Kraus, Anton; Kodama, Hiroshi; Tamura, Shingo; Hakuno, Fumiaki  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: PCT Int. Appl., 34pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007101544	A2	20070913	WO 2007-EP1463	20070221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102006010204 A1 20070913 DE 2006-102006010204 20060306 PRIORITY APPLN. INFO.: DE 2006-102006010204A 20060306 OTHER SOURCE(S): MARPAT 147:337735				

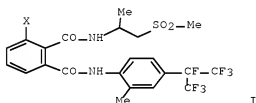
AB Mixts. containing  $\geq 1$  phthalamide derivative such as (S)-3-chloro-N1-(2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl)-N2-(1-methyl-2-methylsulfonylethyl)phthalamide (I) and  $\geq 1$  of 14 cited insect growth regulators have excellent insecticidal properties. Thus, I + lufenuron at 4 + 4 ppm synergistically controlled Phaedon cochleariae larvae on cabbage leaves with 100% mortality after 6 days. Said mixts. have excellent insecticidal properties.

L47 ANSWER 27 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1030357 HCAPLUS Full-text  
 DOCUMENT NUMBER: 147:337734  
 TITLE: Insecticidal mixtures containing phthalamide derivatives  
 INVENTOR(S): Fischer, Ruediger; Funke, Christian; Hungenberg, Heike; Thielert, Wolfgang; Kraus, Anton; Kodama, Hiroshi; Tamura, Shingo; Hakuno, Fumiaki  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: PCT Int. Appl., 43pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007/101540	A1	20070913	WO 2007-EP1458	20070221
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102006015197	A1	20070913	DE 2006-102006015197	20060401
PRIORITY APPLN. INFO.:			DE 2006-102006010200A	20060306
			DE 2006-102006015197A	20060401

GI

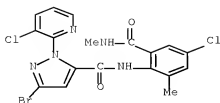


AB Novel mixts. with excellent insecticidal and acaricidal properties contain  $\geq 1$  (R)- or (S)-isomer of a phthalamide (I; where X = Cl, Br, or I) and  $\geq 1$  other active ingredient. Thus, (S)-3-chloro-N1-{2-methyl-4- [1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl}-N2-(1-methyl-2- methylsulfonyl)ethyl)phthalamide + emamectin-benzoate at 0.8 + 0.032 ppm synergistically controlled *Phaedon cochleariae* larvae on cabbage leaves.

IT 500006-45-7D, mixts. with phthalamide derivs.  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (as synergistic insecticides and acaricides)

RN 500008-45-7 HCAPLUS

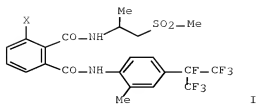
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 28 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:1030069 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 147:337731  
 TITLE: Insecticidal mixtures containing phthalamide derivatives and neonicotinoids  
 INVENTOR(S): Fischer, Ruediger; Funke, Christian; Hungenberg, Heike; Thielert, Wolfgang; Kraus, Anton; Kodama, Hiroshi; Tamura, Shingo; Hakuno, Fumiaki  
 PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany  
 SOURCE: PCT Int. Appl., 42pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007101542	A1	20070913	WO 2007-EP1461	20070221
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102006010209	A1	20070913	DE 2006-102006010209	20060306
PRIORITY APPLN. INFO.:			DE 2006-102006010209A	20060306
OTHER SOURCE(S):	MARPAT 147:337731			
GI				



AB Novel mixts. with excellent insecticidal properties contain  $\geq 1$  (R)- or, preferably, (S)-isomer of (I), where X = Cl, Br, or I, and  $\geq 1$  neonicotinoid. Thus, (S)-3-chloro-N1-(2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl)-N2-(1-methyl-2-methylsulfonyl)ethylphthalimide + imidacloprid at 20 + 0.8 ppm synergistically controlled *Aphis gossypii* on cotton (*Gossypium herbaceum*) leaves.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 29 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1029687 HCAPLUS Full-text

DOCUMENT NUMBER: 147:337730

TITLE: Insecticidal and acaricidal mixtures containing phthalimide derivatives

INVENTOR(S): Fischer, Ruediger; Funke, Christian; Rungenberg, Heike; Thieleert, Wolfgang; Kraus, Anton; Kodama, Hiroshi; Tamura, Shingo; Hakuno, Fumiaki

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 50pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007101545	A1	20070913	WO 2007-EP1464	20070221
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW</p> <p>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p>				
DE 102006010206	A1	20070913	DE 2006-102006010206	20060306
PRIORITY APPLN. INFO.:			DE 2006-102006010206A	20060306
OTHER SOURCE(S): MARPAT 147:337730				

AB Mixts. containing  $\geq 1$  phthalimide derivative such as (S)-3-chloro-N1-(2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl)-N2-(1-methyl-2-methylsulfonyl)ethylphthalimide (I) and  $\geq 1$  (thio)phosphate (e.g. acephate)

and(or) carbamate (such as carbaryl) have excellent insecticidal and acaricidal properties. Thus, I + chlorpyrifos at 0.032 + 0.16 ppm synergistically controlled *Plutella xylostella* on cabbage leaves; mortality of a sensitive strain after 4 days was 100%.

IT 2032-63-7D, Methiocarb, mixts. with phthalamide derivs.

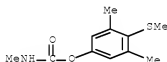
2921-88-2D, Chlorpyrifos, mixts. with phthalamide derivs.

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as synergistic insecticides and acaricides)

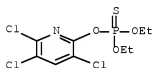
RN 2032-63-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 30 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:968510 HCAPLUS Full-text

DOCUMENT NUMBER: 147:270797

TITLE: Synergistic insecticidal and acaricidal mixture  
Fischer, Reiner; Bretschneider, Thomas; Hungenberg,

Heike; Andersch, Wolfram; Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: Ger. Offen., 12pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006008691	A1	20070830	DE 2006-102006008691	20060224
WO 2007098852	A2	20070907	WO 2007-EP1164	20070212
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: DE 2006-102006008691A 20060224

AB A combination of spiromesifen and gamma-cyhalothrin is a synergistic insecticidal and acaricidal mixture

L47 ANSWER 31 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:644311 HCAPLUS Full-text

DOCUMENT NUMBER: 147:25347

TITLE: Anthranilic acid amide insecticide compositions with enhanced activity

INVENTOR(S): Funke, Christian; Fischer, Reiner; Marczuk, Peter; Pontzen, Rolf; Reckmann, Udo; Arnold, Christian; Sanwald, Erich

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 26pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005059470	A1	20070614	DE 2005-102005059470	20051213
WO 2007068356	A1	20070621	WO 2006-EP11471	20061130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005059470A 20051213

OTHER SOURCE(S): MARPAT 147:25347

AB The insecticidal activity of known anthranilic acid amide derivs. (Markush given) is enhanced by addition of quaternary ammonium salts and/or phosphonium salts, and by penetration promoters, such as fatty alc. ethoxylates and mineral or vegetable oils and their esters.

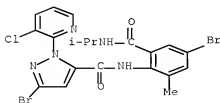
IT 500008-29-7D, mixts. with ammonium or phosphonium compds.  
 500008-44-6D, mixts. with ammonium or phosphonium compds.  
 500008-45-7D, mixts. with ammonium or phosphonium compds.  
 500008-47-9D, mixts. with ammonium or phosphonium compds.  
 500008-49-1D, mixts. with ammonium or phosphonium compds.

500008-51-5D, mixts. with ammonium or phosphonium compds.  
 500008-53-7D, mixts. with ammonium or phosphonium compds.  
 500008-54-8D, mixts. with ammonium or phosphonium compds.  
 500008-55-9D, mixts. with ammonium or phosphonium compds.  
 500008-56-0D, mixts. with ammonium or phosphonium compds.  
 500008-60-6D, mixts. with ammonium or phosphonium compds.  
 500008-62-8D, mixts. with ammonium or phosphonium compds.  
 500008-64-0D, mixts. with ammonium or phosphonium compds.  
 500008-66-2D, mixts. with ammonium or phosphonium compds.  
 500008-67-3D, mixts. with ammonium or phosphonium compds.  
 500008-68-4D, mixts. with ammonium or phosphonium compds.  
 500008-70-8D, mixts. with ammonium or phosphonium compds.  
 500008-71-9D, mixts. with ammonium or phosphonium compds.  
 500008-72-0D, mixts. with ammonium or phosphonium compds.  
 500008-73-1D, mixts. with ammonium or phosphonium compds.  
 500008-74-2D, mixts. with ammonium or phosphonium compds.  
 500008-75-3D, mixts. with ammonium or phosphonium compds.  
 500008-76-4D, mixts. with ammonium or phosphonium compds.  
 500008-77-5D, mixts. with ammonium or phosphonium compds.  
 500008-79-7D, mixts. with ammonium or phosphonium compds.  
 500008-84-4D, mixts. with ammonium or phosphonium compds.  
 500008-91-3D, mixts. with ammonium or phosphonium compds.  
 500008-95-7D, mixts. with ammonium or phosphonium compds.  
 500008-98-0D, mixts. with ammonium or phosphonium compds.  
 500008-99-1D, mixts. with ammonium or phosphonium compds.  
 500009-00-7D, mixts. with ammonium or phosphonium compds.  
 500009-01-8D, mixts. with ammonium or phosphonium compds.  
 500009-03-0D, mixts. with ammonium or phosphonium compds.  
 500009-05-2D, mixts. with ammonium or phosphonium compds.  
 500009-06-3D, mixts. with ammonium or phosphonium compds.  
 500009-07-4D, mixts. with ammonium or phosphonium compds.  
 500009-08-5D, mixts. with ammonium or phosphonium compds.  
 500009-26-7D, mixts. with ammonium or phosphonium compds.  
 500009-47-2D, mixts. with ammonium or phosphonium compds.  
 500009-52-9D, mixts. with ammonium or phosphonium compds.  
 500009-66-5D, mixts. with ammonium or phosphonium compds.  
 500021-31-8D, mixts. with ammonium or phosphonium compds.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (insecticidal compns. with enhanced activity)

RN 500008-29-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[[[1-methylethyl]amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

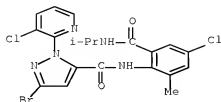


RN 500008-44-6 HCAPLUS

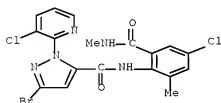
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[[1-methylethyl]amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



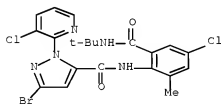
(NAME)



RN 500008-45-7 HCAPLUS

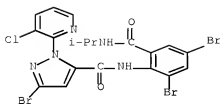
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

RN 500008-47-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[[[(1,1-  
dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)

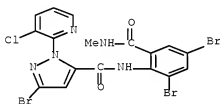
RN 500008-49-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-  
6-[[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



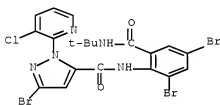
RN 500008-51-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



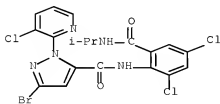
RN 500008-53-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(1,1-dimethylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



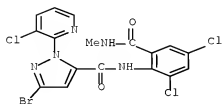
RN 500008-54-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



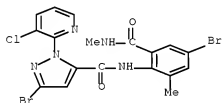
RN 500008-55-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



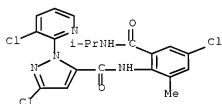
RN 500008-56-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



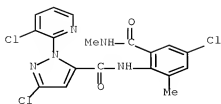
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



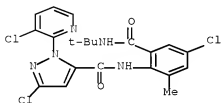
RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



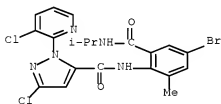
RN 500008-64-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[[[(1,1-dimethylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)



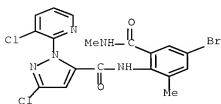
RN 500008-66-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[(1,1-dimethylethyl)amino]carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)

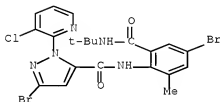


RN 500008-67-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-methyl-6-[[[(methylamino)carbonyl]phenyl]-3-chloro-1-(3-chloro-2-pyridinyl)]- (CA INDEX NAME)

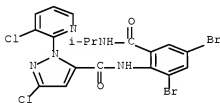


RN 500008-68-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-  
(CA INDEX NAME)

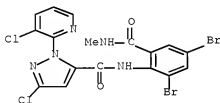
RN 500008-70-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



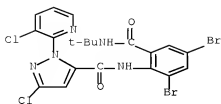
RN 500008-71-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



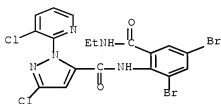
RN 500008-72-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(1,1-dimethylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



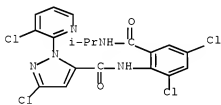
RN 500008-73-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(ethylamino)carbonyl]phenyl]- (CA INDEX NAME)



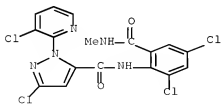
RN 500008-74-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



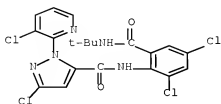
RN 500008-75-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



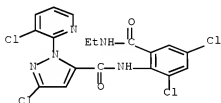
RN 500008-76-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(1,1-dimethylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



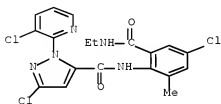
RN 500008-77-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(ethylamino)carbonyl]phenyl]- (CA INDEX NAME)



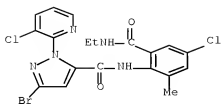
RN 500008-79-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



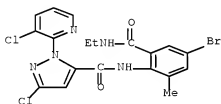
RN 500008-84-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



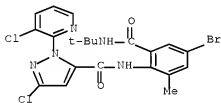
RN 500008-91-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



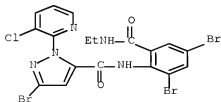
RN 500008-95-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-[[1,1-dimethylethyl)amino]carbonyl]-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-98-0 HCAPLUS

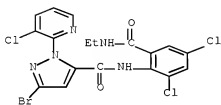
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(ethylamino)carbonyl]phenyl]- (CA INDEX NAME)





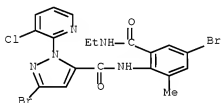
RN 500008-99-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(ethylamino)carbonyl]phenyl]- (CA INDEX NAME)



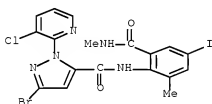
RN 500009-00-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



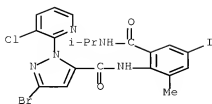
RN 500009-01-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



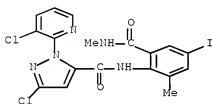
RN 500009-03-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[[1-methylethyl]amino]carbonyl]phenyl]- (CA INDEX NAME)



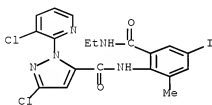
RN 500009-05-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



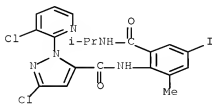
RN 500009-06-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



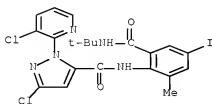
RN 500009-07-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[4-iodo-2-methyl-6-[[1-(methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



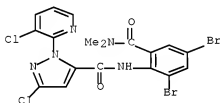
RN 500009-08-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(1,1-dimethylethyl)amino]carbonyl]-4-iodo-6-methylphenyl]- (CA INDEX NAME)



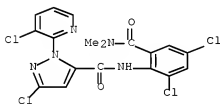
RN 500009-26-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(dimethylamino)carbonyl]phenyl]- (CA INDEX NAME)



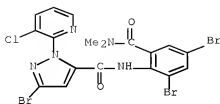
RN 500009-47-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(dimethylamino)carbonyl]phenyl]- (CA INDEX NAME)



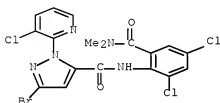
RN 500009-52-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dibromo-6-[(dimethylamino)carbonyl]phenyl]- (CA INDEX NAME)



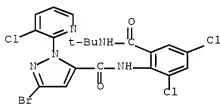
RN 500009-66-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(dimethylamino)carbonyl]phenyl]- (CA INDEX NAME)



RN 500021-31-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(1,1-dimethylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



L47 ANSWER 32 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:644178 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 147:25345

TITLE: Activity enhancement of phthalic acid diamide insecticides by quaternary ammonium or phosphonium compounds

INVENTOR(S): Fischer, Ruediger; Fischer, Feiner; Funke, Christian; Pontzen, Rolf; Reckmann, Udo; Marczok, Peter; Arnold, Christian; Sanwald, Erich; Hempel, Waltraud

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 12pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005059466	A1	20070614	DE 2005-102005059466	20051213
WO 2007068357	A1	20070621	WO 2006-EP11473	20061130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005059466A 20051213

OTHER SOURCE(S): MARPAT 147:25345

AB The activity of phthalic acid diamide (Markush given) insecticides is enhanced by quaternary ammonium or phosphonium compds. and penetration enhancers, such as fatty alc. ethoxylates and rape oil Me ester (no data).

L47 ANSWER 33 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:644050 HCAPLUS Full-text

DOCUMENT NUMBER: 147:25343

TITLE: Enhancement of the insecticidal activity of phthalic acid diamides by ammonium or phosphonium quaternary compounds

INVENTOR(S): Fischer, Ruediger; Fischer, Reiner; Funke, Christian; Pontzen, Rolf; Reckmann, Udo; Marczok, Peter; Arnold, Christian; Sanwald, Erich; Hempel, Waltraud

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 9pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

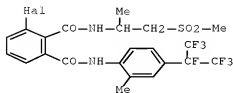
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005059467	A1	20070614	DE 2005-102005059467	20051213
WO 2007068350	A1	20070621	WO 2006-EP11441	20061129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

KG, KZ, MD, RU, TJ, TM  
 PRIORITY APPLN. INFO.:  
 OTHER SOURCE(S): MARPAT 147:25343  
 GI

DE 2005-102005059467A 20051213



I

AB The invention concerns improvement of the effect of c insecticides by addition of quaternary ammonium and/or phosphonium salts and penetration promoters, such as fatty alc. ethoxylates or vegetable or mineral oil esters. The phthalic acid diamides are (R)- or (S)-I (Hal = Cl, Br or I).

L47 ANSWER 34 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:329412 HCAPLUS Full-text

DOCUMENT NUMBER: 146:310945

TITLE: Enhancement of pathogen resistance in plants by chloronicotinoyl derivatives

INVENTOR(S): Thielert, Wolfgang; Andersch, Wolfram; Eckes, Peter; Benting, Juergen

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: Ger. Offen., 13pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005045174	A1	20070322	DE 2005-102005045174	20050921
WO 2007033810	A2	20070329	WO 2006-EP9072	20060919
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005045174A 20050921

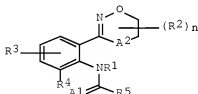
OTHER SOURCE(S): MARPAT 146:310945

AB The chloronicotinoyl derivs. HetCH2NRC(:X)A (Het = heterocyclyl; R = H, alkyl, alkenyl, etc.; X = NNO2, NCN or CHNO2; A = alkyl, NR1R2 or SR2; R1 = H, alkyl, alkenyl, cycloalkyl, etc.; R2 = alkyl, alkenyl, etc.) are enhancers of plant

resistance against fungal, bacterial or viral pathogenes. The resistance of pathogenes takes place via induction of PR-proteins.

L47 ANSWER 35 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:328180 HCAPLUS Full-text  
 DOCUMENT NUMBER: 146:358885  
 TITLE: Preparation of dioxazine- and oxadiazine-substituted  
 arylamides as pesticides  
 INVENTOR(S): Krueger, Bernd-Wieland; Hense, Achim; Alig, Bernd;  
 Fischer, Ruediger; Funke, Christian; Gesing, Ernst  
 Rudolf; Malsam, Olga; Drewes, Mark Wilhelm; Arnold,  
 Christian; Luemmen, Peter; Sanwald, Erich  
 PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 87pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007031213	A1	20070322	WO 2006-EP8637	20060905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102005044108 A1 20070329 DE 2005-102005044108 20050915 AU 2006291708 A1 20070322 AU 2006-291708 20060905 PRIORITY APPLN. INFO.: DE 2005-102005044108A 20050915 WO 2006-EP8637 W 20060905 OTHER SOURCE(S): MARPAT 146:358885 GI				



I

AB Title compds. [I; A1 = O, S; A2 = O, amino, aminoformyl, aminoacetyl; R1 = H, amino, OH, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; n = 0-4; R3 = H, halo,

cyano, NO<sub>2</sub>, (halo)alkyl, (halo)alkenyl, alkynyl, alkoxy, etc.; R<sub>4</sub> = (halo)alkyl, (halo)cycloalkyl, (halo)alkenyl, (halo)alkynyl, etc.; R<sub>5</sub> = 5-6 membered (substituted) heterocycl[yl], were prepared. Thus, 6-chloro-2-(3-trifluoromethyl-5-chlorocarbonylpyrazolyl)pyridine in PhMe was treated with 3-(3,5-dichloro-2-aminophenyl)-5,6-dihydro-1,4,2-dioxazine (preparation given), 1,6-diazabicyclo[5.4.0]undec-7-ene(1,5-5) and pyridine followed by stirring for 3 h under reflux to give 1-(6-chloro-2-pyridyl)-N-[2,4-dichloro-6-[3-(5,6-dihydro-1,4,2-dioxazinyl)]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. The latter at 100 ppm gave 100% kill of *Spodoptera exigua* after 7 days.

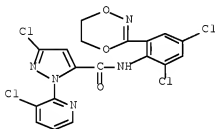
IT 929710-23-6P 929710-26-9P 929710-29-2P  
929710-30-5P 929710-31-6P 929710-33-8P  
929710-40-7P 929710-41-8P 929710-42-9P  
929710-43-0P 929710-44-1P 929710-46-3P  
929710-47-4P 929710-48-5P 929710-51-0P  
929710-52-1P 929710-53-2P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of dioxazine- and oxadiazine-substituted arylamides as pesticides)

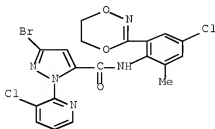
RN 929710-23-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-(5,6-dihydro-1,4,2-dioxazin-3-yl)phenyl]- (CA INDEX NAME)



RN 929710-26-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-(5,6-dihydro-1,4,2-dioxazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

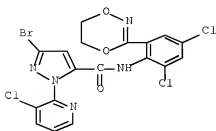


RN 929710-29-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-

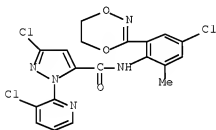


dichloro-6-(5,6-dihydro-1,4,2-dioxazin-3-yl)phenyl]- (CA INDEX NAME)



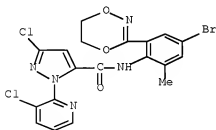
RN 929710-30-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-(5,6-dihydro-1,4,2-dioxazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



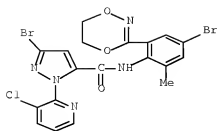
RN 929710-31-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-(5,6-dihydro-1,4,2-dioxazin-3-yl)-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



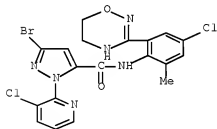
RN 929710-33-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-(5,6-dihydro-1,4,2-dioxazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



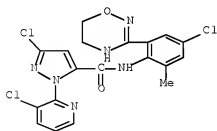
RN 929710-40-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



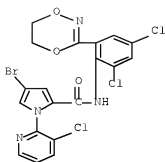
RN 929710-41-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



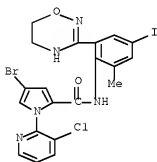
RN 929710-42-9 HCAPLUS

CN 1H-Pyrrole-2-carboxamide, 4-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-(5,6-dihydro-1,4,2-dioxazin-3-yl)phenyl]- (CA INDEX NAME)



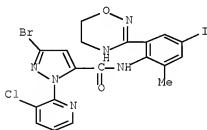
RN 929710-43-0 HCAPLUS

CN 1H-Pyrrole-2-carboxamide, 4-bromo-1-(3-chloro-2-pyridinyl)-N-[2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-4-iodo-6-methylphenyl]- (CA INDEX NAME)



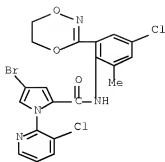
RN 929710-44-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-4-iodo-6-methylphenyl]- (CA INDEX NAME)



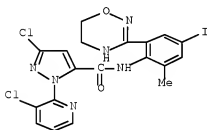
RN 929710-46-3 HCAPLUS

CN 1H-Pyrazole-2-carboxamide, 4-bromo-N-[4-chloro-2-(5,6-dihydro-1,4,2-dioxazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



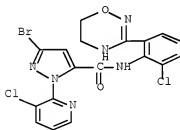
RN 929710-47-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-4-iodo-6-methylphenyl]- (CA INDEX NAME)



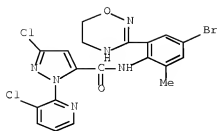
RN 929710-48-5 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[2-chloro-6-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



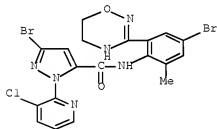
RN 929710-51-0 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-bromo-2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-6-methylphenyl]-3-chloro-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



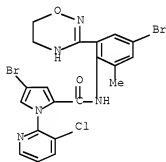
RN 929710-52-1 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-bromo-2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 929710-53-2 HCAPLUS

CN 1H-Pyrazole-2-carboxamide, 4-bromo-N-[4-bromo-2-(5,6-dihydro-2H-1,2,4-oxadiazin-3-yl)-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 36 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1224999 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 145:484780

TITLE: Using neonicotinoid insecticides for improving plant  
growth and increasing plant resistance to soil-borne

INVENTOR(S): fungal pathogens  
Thieleert, Wolfgang; Marczok, Peter; Brueggen,  
Kai-Uwe; Andersch, Wolfram; Bloukidis, Konstantinos;  
Georgiou, Alexandros  
PATENT ASSIGNEE(S): Bayer CropScience AG, Germany  
SOURCE: PCT Int. Appl., 31pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006122662	A1	20061123	WO 2006-EP4257	20060506
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102005022994	A1	20061130	DE 2005-102005022994	20050519
AU 2006246670	A1	20061123	AU 2006-246670	20060506
CA 2608768	A1	20061123	CA 2006-2608768	20060506
EP 1885183	A1	20080213	EP 2006-742818	20060506
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101175407	A	20080507	CN 2006-80017157	20071119
KR 2008009162	A	20080124	KR 2007-728779	20071210
PRIORITY APPLN. INFO.:			DE 2005-102005022994A	20050519
			WO 2006-EP4257	W 20060506

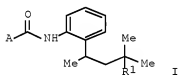
AB The invention relates to a method of improving plant growth and of increasing the resistance in plants to soil-borne fungal diseases by direct incorporation of neonicotinoid insecticide formulations into nutrient solns. customary for the cultivation of plants.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

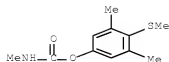
L47 ANSWER 37 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2006:1154773 HCAPLUS Full-text  
DOCUMENT NUMBER: 145:466888  
TITLE: Synergistic insecticidal, acaricidal and fungicidal compositions comprising carboxamides  
INVENTOR(S): Suty-Heinze, Anne; Hungenberg, Heike; Thieleert, Wolfgang; Elbe, Hans-Ludwig  
PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany  
SOURCE: PCT Int. Appl., 57pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006114212	A2	20061102	WO 2006-EP3487	20060415
WO 2006114212	A3	20070621		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
DE 102005022147	A1	20061102	DE 2005-102005022147	20050513
AU 2006239579	A1	20061102	AU 2006-239579	20060415
CA 2606230	A1	20061102	CA 2006-2606230	20060415
EP 1876897	A2	20080116	EP 2006-742592	20060415
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
KR 2008005570	A	20080114	KR 2007-727288	20071123
PRIORITY APPLN. INFO.:			DE 2005-102005019713A	20050428
			DE 2005-102005022147A	20050513
			WO 2006-EP3487	W 20060415

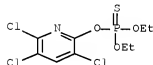
GI



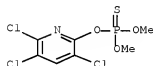
- AB The title compns. comprise the carboxamides I [R1 = H, halo, or (halo)alkyl; A = (un)substituted Ph, pyrazolyl, thiazolyl, pyridyl, etc.] and any of a very large number of known insecticides.
- IT 2032-65-7D, Methiocarb, mixts. with carboxamides  
 2921-88-2D, Chlorpyrifos ethyl, mixts. with carboxamides  
 5598-13-0D, mixts. with carboxamides  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic insecticidal, acaricidal and fungicidal compns.)
- RN 2032-65-7 HCAPLUS
- CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)

L47 ANSWER 38 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:849890 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 145:243217

TITLE: Synergistic combinations of cyclic ketoenols and ethiprole as insecticides and acaricides

INVENTOR(S): Fischer, Reiner; Hungenberg, Heike; Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 23pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005008033	A1	20060824	DE 2005-102005008033	20050222
AU 2006218277	A1	20060831	AU 2006-218277	20060214
WO 2006089665	A2	20060831	WO 2006-EP1326	20060214
WO 2006089665	A3	20070301		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,



KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1855532 A2 20071121 EP 2006-706933 20060214

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

IN 2007DN06367 A 20070831 IN 2007-DN6367 20070816

KR 2007106568 A 20071101 KR 2007-721285 20070917

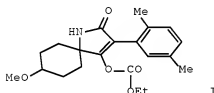
CN 101160051 A 20080409 CN 2006-80012596 20071015

PRIORITY APPLN. INFO.: DE 2005-102005008033A 20050222

WO 2006-EP1326 W 20060214

OTHER SOURCE(S): MARPAT 145:243217

GI



AB Combinations of certain cyclic ketoenols and ethiprole possess very good insecticidal and acaricidal characteristics. Thus, I + ethiprole mixture at 4 + 20 ppm synergistically controlled *Myzus persicae* on infested leaves of *Brassica oleracea*.

L47 ANSWER 39 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:736517 HCAPLUS Full-text

DOCUMENT NUMBER: 145:139214

TITLE: Use of tetramic acid derivatives for the control of *Stenorrhina* (plant lice)

INVENTOR(S): Fischer, Feiner; Hungenberg, Heike; Brueck, Ernst; Nauen, Ralf; Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006077071	A2	20060727	WO 2006-EP356	20060117
WO 2006077071	A3	20070118		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

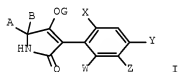
DE 102005003076	A1	20060727	DE 2005-102005003076	20050122
AU 2006207604	A1	20060727	AU 2006-207604	20060117
CA 2595359	A1	20060727	CA 2006-2595359	20060117
EP 1843660	A2	20071017	EP 2006-706259	20060117

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101106902	A	20080116	CN 2006-80002926	20060117
MX 200708615	A	20070911	MX 2007-8615	20070716
KR 2007106514	A	20071101	KR 2007-718240	20070808

PRIORITY APPLN. INFO.: DE 2005-102005003076A 20050122  
WO 2006-EP356 W 20060117

OTHER SOURCE(S): MARPAT 145:139214  
GI



AB The invention relates to the use of tetramic acid derivs. I [X = halo, (halo)alkyl, (halo)alkoxy or CN; W, Y, Z = H or X; A = H, (halo)alkyl, alkoxyalkyl, (un)substituted cycloalkyl or heterocyclyl; B = H or alkyl; ACB = cycle; G = H, C(O)R1, C(L)MR2, etc.; L, M = O or S; R1 = (halo)alkyl, alkenyl, etc.; R2 = (halo)alkyl, alkenyl, alkoxy alkyl, polyalkoxyalkyl, (un)substituted cycloalkyl, Ph or benzyl] for control of insects of the plant louse suborder (Stenorrhina).

L47 ANSWER 40 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:194278 HCAPLUS Full-text

DOCUMENT NUMBER: 144:253904

TITLE: Preparation of optically active phthalamide derivative as agricultural or horticultural insecticide

INVENTOR(S): Nakao, Hayami; Matsuzaki, Yoshihiro; Fujioka, Shinsuke; Morimoto, Masayuki; Tohnishi, Masanori; Fischer, Pudiger; Funke, Christian; Malsam, Olga; Arnold, Christian; Sanwald, Erich; Hempel, Waltraud; Reckmann, Udo

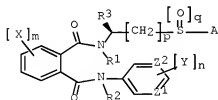
PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: PCT Int. Appl., 80 pp.

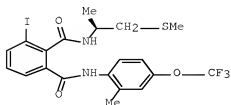
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006022225	A1	20060302	WO 2005-JP15208	20050822
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2005275886	A1	20060302	AU 2005-275886	20050822
CA 2576325	A1	20060302	CA 2005-2576325	20050822
JP 2006089469	A	20060406	JP 2005-239974	20050822
EP 1782689	A1	20070509	EP 2005-780367	20050822
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101006049	A	20070725	CN 2005-80028092	20050822
MX 200701884	A	20070424	MX 2007-1884	20070215
KR 2007046135	A	20070502	KR 2007-704249	20070222
IN 2007CN00769	A	20070824	IN 2007-CN769	20070222
US 20080051457	A1	20080228	US 2007-660695	20070606
PRIORITY APPLN. INFO.:			JP 2004-242259	A 20040823
			WO 2005-JP15208	W 20050822
OTHER SOURCE(S):	MARPAT 144:253904			
GI				



I



II

AB Title compds. I [R1, R2 = H, alkyl, halo, etc.; R3 = alkyl; A = H, alkyl, haloalkyl, etc.; p = 0-4; q = 0-2; X = halo, cyano, nitro, etc.; m = 0-4; Y = H, halo, cyano, etc.; n = 1-5; Z1, Z2 = C-Y, N; Y = same as above] were prepared For example, cyclization of (S)-3-iodo-N-(1-methyl-2-methylthioethyl)phthalamic acid, e.g., prepared from L-alaninol in 5 steps, using trifluoroacetic anhydride followed by reaction with 2-methyl-4-trifluoromethoxyaniline afforded compound II. In insecticidal test against *Plutella xylostella*, compound II exhibited the control activity of 100%.

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 41 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:80069 HCAPLUS Full-text  
 DOCUMENT NUMBER: 144:144763  
 TITLE: Safened synergistic insecticidal and acaricidal compositions.  
 INVENTOR(S): Fischer, Reiner; Andersch, Wolfram; Hungenberg, Heike; Thielert, Wolfgang; Willms, Lothar  
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany  
 SOURCE: PCT Int. Appl., 76 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006008109	A2	20060126	WO 2005-EP7792	20050718
WO 2006008109	A3	20060420		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102004035132	A1	20060216	DE 2004-102004035132	20040720
AU 2005263568	A1	20060126	AU 2005-263568	20050718
CA 2574207	A1	20060126	CA 2005-2574207	20050718
EP 1771065	A2	20070411	EP 2005-772342	20050718
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101018482	A	20070815	CN 2005-80030753	20050718
JP 2008506741	T	20080306	JP 2007-521875	20050718
IN 2007DN00447	A	20070817	IN 2007-DN447	20070117
KR 2007047781	A	20070507	KR 2007-703609	20070215
PRIORITY APPLN. INFO.:			DE 2004-102004035132A	20040720
			WO 2005-EP7792	W 20050718

AB The title compns. comprise: (a) one or several compds. selected among the group of acetylcholinesterase inhibitors, sodium channel modulators, chitin

biosynthesis inhibitors, juvenile hormone mimetics, chloride channel activators, ecdysone agonists, GABA-controlled chloride channel antagonists, or acaricides, and (b) at least one compound that improves crop plant tolerance.

IT 874196-95-9, Chlorpyrifos-AE 1789 mixture  
 874196-96-0, Methiocarb-AE 1789 mixture  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (safened synergistic insecticidal and acaricidal composition)  
 RN 874196-95-9 HCAPLUS  
 CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester,  
 mixt. with AE 1789 (9CI) (CA INDEX NAME)

CM 1

CRN 874195-29-6

CMF Unspecified

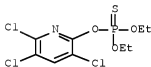
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 2921-88-2

CMF C9 H11 Cl3 N O3 P S



RN 874196-96-0 HCAPLUS  
 CN Phenol, 3,5-dimethyl-4-(methylthio)-, methylcarbamate, mixt. with AE 1789  
 (9CI) (CA INDEX NAME)

CM 1

CRN 874195-29-6

CMF Unspecified

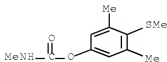
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

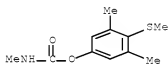
CM 2

CRN 2032-65-7

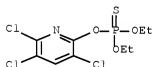
CMF C11 H15 N O2 S



IT 2932-65-7D, Metbiocarb, mixts. with safeners  
 2921-88-2D, Chlorpyrifos, mixts. with safeners  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (safened synergistic insecticidal and acaricidal compns.)  
 RN 2032-65-7 HCAPLUS  
 CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 2921-88-2 HCAPLUS  
 CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
 (CA INDEX NAME)



L47 ANSWER 42 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:75888 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 144:144759

TITLE: Selective and synergistic insecticide and acaricide compositions based on haloalkylpyridinic acid derivatives, anthranilic acid diamides or phthalic acid diamides, and safeners

INVENTOR(S): Fischer, Reiner; Fischer, Ruediger; Funke, Christian; Hense, Achim; Andersch, Wolfram; Hungenberg, Heike; Thielert, Wolfgang; Reckmann, Udo; Willms, Lothar; Arnold, Christian

PATENT ASSIGNEE(S): Bayer CropScience AG, Germany

SOURCE: PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006008108	A2	20060126	WO 2005-EP7791	20050718
WO 2006008108	A3	20060831		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,

NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

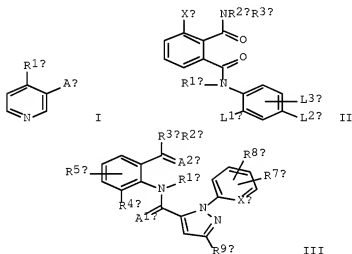
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

DE 102004035134	A1	20060216	DE 2004-102004035134	20040720
AU 2005263567	A1	20060126	AU 2005-263567	20050718
CA 2574205	A1	20060126	CA 2005-2574205	20050718
EP 1771072	A2	20070411	EP 2005-761088	20050718

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 1988804	A	20070627	CN 2005-80024810	20050718
BR 2005012106	A	20080206	BR 2005-12106	20050718
JP 2008506740	T	20080306	JP 2007-521874	20050718
IN 2007DN00084	A	20070803	IN 2007-DN84	20070103
PRIORITY APPLN. INFO.:			DE 2004-102004035134A	20040720
			WO 2005-EP7791	W 20050718

OTHER SOURCE(S): MARPAT 144:144759  
GI



AB The title insecticide and acaricide combinations comprise: (a) (1) at least one haloalkylpyridine derivative I [AA = haloalkyl; AA = heterocyclyl, C:(WA)N3AR2A, etc; WA = O or S; R2A, R3A = H, OH, oximinoalkyl, hydrazonoalkyl, etc.; R3ANR2A = ring] or (2) at least one phthalic acid diamine II [XB = halo, cyano, (halo)alkyl, etc.; R1B, R2B, R3B, = H, cyano, (halo)cycloalkyl, etc.; L1B, L3B = H, halo, cyano, (un)substituted alkyl, Ph, PhO, heteraryloxy, etc.; L2B = H, halo, cyano, (un)substituted alkyl, etc.] or (3) at least one anthranilic acid amide III [XC = N or CR10C; R10C = H, (halo)alkyl, halo, cyano or haloalkoxy; A1C, A2C = O or S; R1C = H, (un)substituted alkyl, etc.; R2C = H, alkyl, alkenyl, alkynyl, etc.; R3C = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R4C = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; R5C, R8C = H, halo, (un)substituted (halo)alkyl, etc.; R7C = H, halo, (halo)alkyl, (halo)alkoxy, alkylthio, alkylsulfonyl, etc.; R9C = halo,

haloalkyl, haloalkoxy, etc.] and (b) at least one compound that improves crop plant tolerance, especially cloquintocet-mexyl, isoxadifen-Et, and mefenpyr-diethyl.

IT 874141-77-2 874141-78-3 874141-79-4

874141-80-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(selective and synergistic insecticide and acaricide composition)

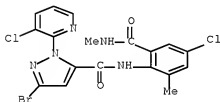
RN 874141-77-2 HCAPLUS

CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt. with 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 500008-45-7

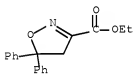
CMF C18 H14 Br Cl2 N5 O2



CM 2

CRN 163520-33-0

CMF C18 H17 N O3



RN 874141-78-3 HCAPLUS

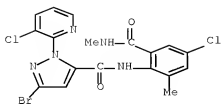
CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, mixt. with 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 500008-45-7

CMF C18 H14 Br Cl2 N5 O2

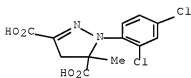




CM 2

CRN 135591-00-3

CMF C12 H10 Cl2 N2 O4



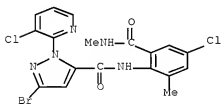
RN 874141-79-4 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
 [(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-, mixt. with  
 N-[[4-[(cyclopropylamino)carbonyl]phenyl]sulfonyl]-2-methoxybenzamide  
 (9CI) (CA INDEX NAME)

CM 1

CRN 500008-45-7

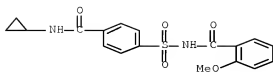
CMF C18 H14 Br Cl2 N5 O2



CM 2

CRN 221667-31-8

CMF C18 H18 N2 O5 S



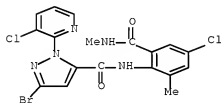
RN 874141-80-7 HCAPLUS

CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt. with 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 500008-45-7

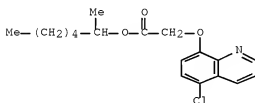
CMF C18 H14 Br Cl2 N5 O2



CM 2

CRN 99607-70-2

CMF C18 H22 Cl N O3



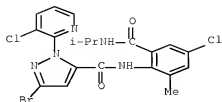
IT 500008-44-6D, mixts. with safeners 500008-45-7D, mixts. with safeners 500008-54-8D, mixts. with safeners 500008-55-9D, mixts. with safeners 500008-60-6D, mixts. with safeners 500008-62-8D, mixts. with safeners 500008-74-2D, mixts. with safeners 500008-75-3D, mixts. with safeners

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (selective and synergistic insecticide and acaricide compns.)

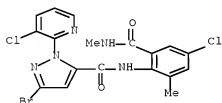
RN 500008-44-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX

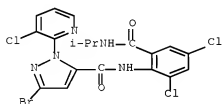
(NAME)



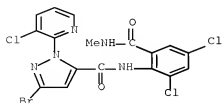
RN 500008-45-7 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-  
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

RN 500008-54-8 HCAPLUS

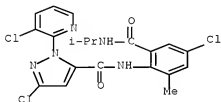
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-  
dichloro-6-[(1-methylethylamino)carbonyl]phenyl]- (CA INDEX NAME)

RN 500008-55-9 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2,4-  
dichloro-6-((methylamino)carbonyl)phenyl]- (CA INDEX NAME)

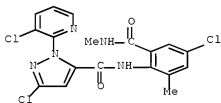
RN 500008-60-6 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



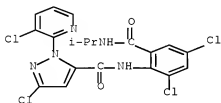
RN 500008-62-8 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



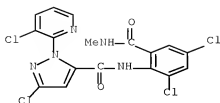
RN 500008-74-2 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



RN 500008-75-3 HCAPLUS

CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2,4-dichloro-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



L47 ANSWER 43 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:75342 HCAPLUS Full-text  
 DOCUMENT NUMBER: 144:144758  
 TITLE: Synergistic compositions comprising neonicotinoid insecticides and safeners  
 INVENTOR(S): Fischer, Peiner; Andersch, Wolfram; Hungenberg, Heike; Thielert, Wolfgang; Willms, Lothar  
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany  
 SOURCE: PCT Int. Appl., 67 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006008110	A1	20060126	WO 2005-EP7793	20050718
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102004055581 A1 20060216 DE 2004-102004055581 20041118 AU 2005263569 A1 20060126 AU 2005-263569 20050718 CA 2574209 A1 20060126 CA 2005-2574209 20050718 EP 1771064 A1 20070411 EP 2005-763729 20050718 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR CN 101022725 A 20070822 CN 2005-80031408 20050718 JP 2008506742 T 20080306 JP 2007-521876 20050718 IN 2007DN00407 A 20070817 IN 2007-DN407 20070116 PRIORITY APPLN. INFO.: DE 2004-102004035130A 20040720 DE 2004-102004055581A 20041118 WO 2005-EP7793 W 20050718				

OTHER SOURCE(S): MARPAT 144:144758  
 AB Synergistic comps. comprise neonicotinoid insecticides Hetch2NRC:(X)A (Het = pyridyl, pyridinio, tetrahydrofuranlyl, etc.; A = alkyl, NR1R2 or SR2; R = H, alkyl, alkenyl, alkynyl, C(:O)CH3 or benzyl; R1 = H; alkyl, alkenyl, Ph, etc.;

R2 = alkyl, alkenyl, etc.; X = NNO<sub>2</sub>, NCN or CHNO<sub>2</sub>] and at least one compound which improves crop plant tolerance.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

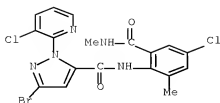
L47 ANSWER 44 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:1354724 HCAPLUS Full-text  
 DOCUMENT NUMBER: 144:46677  
 TITLE: Synergistic insecticidal mixtures containing ethiprole and neonicotinoids  
 INVENTOR(S): Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Melgarejo, Jairo  
 PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany  
 SOURCE: PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005122769	A1	20051229	WO 2005-EP6177	20050609
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004038329	A1	20051229	DE 2004-102004038329	20040806
EP 1758455	A1	20070307	EP 2005-750193	20050609
EP 1758455	B1	20071121		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1968606	A	20070523	CN 2005-80020100	20050609
JP 2008502621	T	20080131	JP 2007-515830	20050609
BR 2005012269	A	20080226	BR 2005-12269	20050609
IN 2006DN07070	A	20070831	IN 2006-DN7070	20061124
MX 2006PA14451	A	20070323	MX 2006-PA14451	20061211
KR 2007043781	A	20070425	KR 2007-700690	20070111
PRIORITY APPLN. INFO.:			DE 2004-102004028994A	20040616
			DE 2004-102004038329A	20040806
			WO 2005-EP6177	W 20050609
AB The invention relates to synergistic insecticidal mixts. comprising ethiprole and at least one neonicotinoid insecticide, such as imidacloprid.				
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L47 ANSWER 45 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:1001884 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:281039  
 TITLE: Oil-based pesticide suspension concentrates

INVENTOR(S): Baur, Peter; Fischer, Rainer; Vermeer, Ronald  
 PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany  
 SOURCE: PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005084435	A2	20050915	WO 2005-EP2285	20050304
WO 2005084435	A3	20051124		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 102004011007	A1	20050922	DE 2004-102004011007	20040306
AU 2005220023	A1	20050915	AU 2005-220023	20050304
EP 1725104	A2	20061129	EP 2005-715725	20050304
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 1929743	A	20070314	CN 2005-80007233	20050304
BR 2005008525	A	20070814	BR 2005-8525	20050304
JP 2007527425	T	20070927	JP 2007-501226	20050304
IN 2006DN04961	A	20070713	IN 2006-DN4961	20060829
MX 2006PA10020	A	20061115	MX 2006-PA10020	20060904
US 20070281860	A1	20071206	US 2007-591129	20070716
PRIORITY APPLN. INFO.:			DE 2004-102004011007A	20040306
			WO 2005-EP2285	W 20050304
OTHER SOURCE(S):	MARPAT 143:281039			
AB	The invention relates to oil-based suspension concs. consisting of at least one agrochem. ingredient that is solid at room temperature, at least one "closed" penetration promoter, at least one vegetable oil or mineral oil, at least one nonionic surfactant and/or at least one anionic surfactant, and optionally at least one additive from the group of emulsifiers, foam-inhibiting agents, preservatives, antioxidants, dyes and/or inert filler materials. The penetration promoter is an alc. ethoxylate or related compound			
IT	500008-45-7			
RL:	AGR (Agricultural use); BIOL (Biological study); USES (Uses) (oil-based pesticide suspension concs.)			
RN	500008-45-7	HCAPLUS		
CN	1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)			



L47 ANSWER 46 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:735866 HCAPLUS Full-text

TITLE: Phthalic acid diamides activate ryanodine-sensitive calcium release channels in insects

AUTHOR(S): Lummen, Peter; Ebbinghaus-Kintscher, Ulrich; Lobitz, Nicole; Schulte, Thomas; Funke, Christian; Fischer, Rudiger

CORPORATE SOURCE: Research Biology Insecticides, Bayer Crop Science AG, Monheim, D-40789, Germany

SOURCE: Abstracts of Papers, 230th ACS National Meeting, Washington, DC, United States, Aug. 28-Sept. 1, 2005 (2005), AGRO-025. American Chemical Society: Washington, D. C.

CODEN: 69HFCL

DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)

LANGUAGE: English

AB Flubendiamide represents a novel chemical family of substituted phthalic acid diamides with potent insecticidal activity. So far, the mol. target and the mechanism of action were not known. Here we present for the first time evidence that phthalic acid diamides activate ryanodine-sensitive intracellular calcium release channels (ryanodine receptors, RyR) in insects. With calcium imaging, we showed that flubendiamide and related compds. induced ryanodine sensitive cytosolic calcium transients that were independent of the extracellular calcium concentration in isolated neurons from the pest insect *Heliothis virescens* as well as in transfected CHO cells expressing the ryanodine receptor from *Drosophila melanogaster*. Binding studies on microsomal membranes from *Heliothis* flight muscles revealed that flubendiamide and related compds. interacted with a site distinct from the ryanodine binding site and disrupted the calcium regulation of ryanodine binding by an allosteric mechanism. This novel mode of action seemed to be insect specific because flubendiamide had no measurable effect on mammalian type 1 ryanodine receptors.

L47 ANSWER 47 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:638683 HCAPLUS Full-text

DOCUMENT NUMBER: 143:128440

TITLE: Synergistic insecticidal and acaricidal combinations of tetrionic acid derivatives

INVENTOR(S): Bretschneider, Thomas; Fischer, Reiner; Hungenberg, Heike; Brueck, Ernst; Kraus, Anton; Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

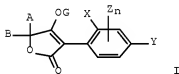
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005065453	A1	20050721	WO 2004-EP14711	20041224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004001112	A1	20050818	DE 2004-102004001112	20040107
PRIORITY APPLN. INFO.:			DE 2004-102004001112A	20040107
OTHER SOURCE(S):			MARPAT 143:128440	
GI				



AB Combinations consisting of tetrone acid derivs. I[X = (halo)alkyl, halo or alkoxy; Y = H or X; Z = halo, alkyl or alkoxy; A = (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; B = H, alkyl or alkoxyalkyl; ACB = ring; G = H, COR1, CO2R2, etc.; R1 = (halo)alkyl, (halo)alkenyl (halo)alkoxyalkyl, etc.; R2 = (halo)alkyl, (halo)alkenyl, etc.; n = 0, 1-3] are synergistic insecticides and acaricides.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 48 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:570772 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:54958  
 TITLE: Synergistic insecticidal mixtures comprising  
 thiodicarb and a chloronicotinyl derivative  
 INVENTOR(S): Andersch, Wolfram; Hungenberg, Heike; Thielert,  
 Wolfgang  
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 52 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058039	A1	20050630	WO 2004-EP13470	20041127

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10358181	A1	20050721	DE 2003-10358181	20031212
DE 102004028995	A1	20060105	DE 2004-102004028995	20040616
AU 2004298747	A1	20050630	AU 2004-298747	20041127
CA 2549034	A1	20050630	CA 2004-2549034	20041127
BR 2004006186	A	20050809	BR 2004-6186	20041127
EP 1696727	A1	20060906	EP 2004-798104	20041127

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

CN 1889841	A	20070103	CN 2004-80036955	20041127
JP 2007513902	T	20070531	JP 2006-543423	20041127
IN 2006DN03037	A	20070803	IN 2006-DN3037	20060526
MX 2006PA06367	A	20060823	MX 2006-PA6367	20060605
US 20070155797	A1	20070705	US 2006-582134	20060608
KR 2008032659	A	20080415	KR 2008-707866	20080331

PRIORITY APPLN. INFO.: DE 2003-10358181 A 20031212  
DE 2004-102004028995A 20040616  
WO 2004-EP13470 W 20041127  
KR 2006-713712 A3 20060707

AB Synergistic insecticidal mixts. comprise thiodicarb and a chloronicotinyl derivative, such as imidacloprid.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 49 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:523210 HCAPLUS [Full-text](#)  
DOCUMENT NUMBER: 143:21469  
TITLE: Synergistic insecticidal compositions comprising anthranilic acid amides  
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thieleert, Wolfgang; Kraus, Anton  
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 62 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2005053406	A1	20050616	WO 2004-EP13197	20041120
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,  
 SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
 NE, SN, TD, TG

DE 102004021565	A1	20050630	DE 2004-102004021565	20040503
AU 2004294711	A1	20050616	AU 2004-294711	20041120
CA 2547989	A1	20050616	CA 2004-2547989	20041120
EP 1691611	A1	20060823	EP 2004-798022	20041120

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

CN 1889838	A	20070103	CN 2004-80035994	20041120
BR 2004017322	A	20070327	BR 2004-17322	20041120
JP 2007513102	T	20070524	JP 2006-541832	20041120
IN 2006DN02655	A	20070518	IN 2006-DN2655	20060511
MX 2006PA06123	A	20060719	MX 2006-PA6123	20060530
US 20070142327	A1	20070621	US 2006-581346	20060602

PRIORITY APPLN. INFO.: DE 2003-10356549 A 20031204  
 DE 2004-102004021565A 20040503  
 WO 2004-EP13197 W 20041120

OTHER SOURCE(S): MARPAT 143:21469

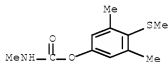
AB Synergistic insecticidal compns. comprise anthranilic acid amides and other insecticides selected from (thio)phosphates and/or carbamates.

IT 2032-65-7D, Methiocarb, mixts. with anthranilic acid amides 2921-88-2D, Chlorpyrifos, mixts. with anthranilic acid amides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic insecticidal compns.)

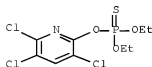
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 50 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:523209 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:21468  
 TITLE: Synergistic insecticidal and acaricidal compositions comprising anthranilic acid amines  
 FUNKE, Christian; FISCHER, Reiner; FISCHER, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielebert, Wolfgang; Kraus, Anton  
 INVENTOR(S):  
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 68 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053405	A1	20050616	WO 2004-EP13198	20041120
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004021566	A1	20050630	DE 2004-102004021566	20040503
AU 2004294259	A1	20050616	AU 2004-294259	20041120
EP 1691608	A1	20060823	EP 2004-798023	20041120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1889835	A	20070103	CN 2004-80036176	20041120
BR 2004017315	A	20070327	BR 2004-17315	20041120
JP 2007513103	T	20070524	JP 2006-541833	20041120
IN 2006DN02823	A	20070518	IN 2006-DN2823	20060518
MX 2006PA06209	A	20060809	MX 2006-PA6209	20060601
US 20070270416	A1	20071122	US 2007-581447	20070412
PRIORITY APPLN. INFO.:			DE 2003-10356551 A	20031204
			DE 2004-102004021566A	20040503
			WO 2004-EP13198 W	20041120

OTHER SOURCE(S): MARPAT 143:21468  
 AB Synergistic insecticidal and acaricidal compns. comprise cyclic ketoenols or other insecticides (amitraz, buprofezin, triazamate, pymetrozine, pyriproxifen, flonicamid or pirimicarb) and addnl. insecticides from the group of anthranilic acid amines.

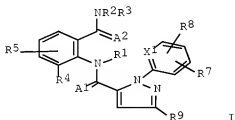
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 51 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:523202 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:39512  
 TITLE: Synergistic insecticidal compositions comprising anthranilic acid amides  
 INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram;

PATENT ASSIGNEE(S): Thielert, Wolfgang; Kraus, Anton  
 SOURCE: Bayer Cropscience Aktiengesellschaft, Germany  
 PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053393	A2	20050616	WO 2004-EP13196	20041120
WO 2005053393	A3	20050804		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10356550	A1	20050707	DE 2003-10356550	20031204
AU 2004294710	A1	20050616	AU 2004-294710	20041120
CA 2547985	A1	20050616	CA 2004-2547985	20041120
EP 1699290	A2	20060913	EP 2004-798021	20041120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1889837	A	20070103	CN 2004-80035851	20041120
BR 2004016545	A	20070109	BR 2004-16545	20041120
JP 2007516963	T	20070628	JP 2006-541831	20041120
IN 2006DN02820	A	20070518	IN 2006-DN2820	20060518
MX 2006PA06204	A	20060809	MX 2006-PA6204	20060601
PRIORITY APPLN. INFO.:			DE 2003-10356550	A 20031204
			WO 2004-EP13196	W 20041120

OTHER SOURCE(S): MARPAT 143:39512  
 GI



I

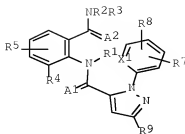
AB The invention relates to synergistic insecticide combinations comprising anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted CH; R1 = H, (un)substituted alkyl alkenyl, alkynyl, etc.; R2 = H, (cyclo)alkyl, alkenyl, alkynyl, alkoxy, alkylamino, etc.; R3 = H, (un)substituted alkyl, alkenyl, alkynyl, Ph, PhO, etc.; R2NR3 = ring; R4 = H, alkyl, alkenyl,

alkynyl, etc.; R5, R8 = h, halo, (un)substituted (halo)alkyl, NH2, SH, etc.;  
R7 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl,  
haloalkoxy or halosulfinyl and another insecticides.

L47 ANSWER 52 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2005:470211 HCAPLUS Full-text  
DOCUMENT NUMBER: 143:2640  
TITLE: Synergistic insecticidal combinations comprising  
anthranilic acid amides and pyrethroids.  
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer,  
Ruediger; Hungenberg, Heike; Andersen, Wolfram;  
Thielert, Wolfgang; Kraus, Anton  
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 64 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048713	A1	20050602	WO 2004-EP12330	20041030
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004021564	A1	20050707	DE 2004-102004021564	20040503
AU 2004290502	A1	20050602	AU 2004-290502	20041030
EP 1686859	A1	20060809	EP 2004-791083	20041030
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1882245	A	20061220	CN 2004-80033692	20041030
BR 2004016560	A	20070123	BR 2004-16560	20041030
JP 2007510683	T	20070426	JP 2006-538722	20041030
IN 2006DN02516	A	20070406	IN 2006-DN2516	20060504
MX 2006PA05262	A	20060720	MX 2006-PA5262	20060510
US 20080070863	A1	20080320	US 2007-579076	20070928
PRIORITY APPLN. INFO.:			DE 2003-10353280 A	20031114
			DE 2004-102004021564A	20040503
			WO 2004-EP12330 W	20041030

OTHER SOURCE(S): MARPAT 143:2640  
GI



I

AB Synergistic insecticidal combinations comprise anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted NH; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; R2 = H, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, etc.; R3 = H, (un)substituted alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)cycloalkyl, (un)substituted Ph, benzyl, PhO, etc; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R7 = H, halo (halo)alkyl, (halo)alkoxy, etc.; R9 = haloalkyl, haloalkoxy, haloalkylsulfanyl or halo and pyrethroids.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 53 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:470210 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 143:2639

TITLE: Synergistic insecticidal and acaricidal compositions comprising anthranilic acid amides

INVENTOR(S): Funke, Christian; Bretschneider, Thomas; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thieleert, Wolfgang; Fraus, Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048712	A1	20050602	WO 2004-EP12329	20041030
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10353281	A1	20050616	DE 2003-10353281	20031114
AU 2004290501	A1	20050602	AU 2004-290501	20041010
EP 1686858	A1	20060809	EP 2004-791082	20041010
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

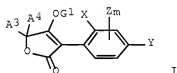
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

BR 2004016035	A	20070102	BR 2004-16035	20041030
CN 1901798	A	20070124	CN 2004-80040065	20041030
JP 2007510682	T	20070426	JP 2006-538721	20041030
IN 2006DN02504	A	20070518	IN 2006-DN2504	20060504
MX 2006PA05260	A	20060720	MX 2006-PA5260	20060510
US 20080027114	A1	20080131	US 2007-578512	20070405

PRIORITY APPLN. INFO.: DE 2003-10353281 A 20031114  
WO 2004-EP12329 W 20041030

OTHER SOURCE(S): MARPAT 143:2639

GI



AB Synergistic insecticidal and acaricidal compns. comprise keto enols I [X = (halo)alkyl, Br or alkoxy; Y = H, (halo)alkyl, halo or alkoxy; Z = alkyl, halo or alkoxy; m = 0,1-3; A3 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; A4 = H, alkyl or alkoxy; A3CA4 = cycle; G1 = H, COR, CO2R1, etc.; R = (halo)alkyl, (halo)alkenyl, (halo)alkoxyalkyl, (halo)alkyltioalkyl, (un)substituted Ph, etc.; R1 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl or (halo)polyalkoxyalkyl] or any of a large number of known insecticides and acaricides on one hand and anthranilic acid amides on the other hand.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 54 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:470209 HCAPLUS Full-text

DOCUMENT NUMBER: 143:2638

TITLE: Synergistic insecticidal compositions comprising nicotinic receptor agonists and antagonists and anthranilic acid amides

INVENTOR(S): Funke, Christian; Fischer, Feiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 71 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048711	A1	20050602	WO 2004-EP12328	20041030
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				



[illegible]

DE 102004006075	A1	20050616	DE 2004-102004006075	20040207
AU 2004290500	A1	20050602	AU 2004-290500	20041030
CA 2545586	A1	20050602	CA 2004-2545586	20041030
EP 1686857	A1	20060809	EP 2004-791081	20041030

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

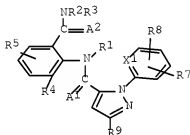
BR 2004016033	A	20070102	BR 2004-16033	200401030
CN 1901799	A	20070124	CN 2004-80040222	200401030
JP 2007510681	T	20070426	JP 2006-538720	200401030
IN 2006DN02510	A	20070518	IN 2006-DN2510	20060504
MX 2006PA05259	A	20060720	MX 2006-PA5259	200605010
US 20070232598	A1	20071004	US 2007-579074	20070521

PRIORITY APPLN. INFO.:

DE 2003-10353278	A	20031114
DE 2004-102004006075A		20040207
WO 2004-EP12328	W	20041030

OTHER SOURCE(S): MARPAT 143:2638

GI



I

AB Synergistic insecticidal compns. comprising nicotinic receptor agonists and antagonists RNACX:XE [R= H, (un)substituted acyl, alkyl, aryl, etc.; A= H, acyl, alkyl, aryl, etc; E= electron receptor; X= CH or N; Z= alkyl, OR, SK or NR2; ANCZ= cycle] and anthranilic acid amides I [A1, A2= O or S; X1= N or Cl; R1= H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, the substituents being R6, halo, CN, etc.; R2= H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, etc.; R3= H, alkyl, alkenyl, etc.; R2NR3= ring; R4= H, (halo)alkyl, (halo)alkenyl, etc.; R5, R8= H, halo, (un)substituted (halo)alkyl, etc.; R6= CH(E1), LCH(E1), etc.; E1= O, S, NH, N(S:O), N(NO)2, etc.; L= O, S, NH, etc.; R7= H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9= halo, haloalkyl, haloalkoxy or haloalkylsulfonate].

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 55 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:369190 HCAPLUS Full-text

DOCUMENT NUMBER: 142:387633

TITLE: Synergistic chloronicotinyl insecticide mixtures

INVENTOR(S): Andersch, Wolfram; Jeschke, Peter; Thiele, Wolfgang  
 PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 68 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005036966	A1	20050428	WO 2004-EP10912	20040930
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
IN 2006DN01502	A	20070323	IN 2006-DN1502	20030321
DE 10347440	A1	20050504	DE 2003-10347440	20031013
AU 2004281516	A1	20050428	AU 2004-281516	20040930
EP 1675462	A1	20060705	EP 2004-765702	20040930
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1867255	A	20061122	CN 2004-80030109	20040930
BR 2004015400	A	20061205	BR 2004-15400	20040930
JP 2007508335	T	20070405	JP 2006-534630	20040930
MX 2006PA04056	A	20060628	MX 2006-PA04056	20060410
US 20070078171	A1	20070405	US 2006-575276	20060411
PRIORITY APPLN. INFO.:			DE 2003-10347440	A 20031013
			WO 2004-EP10912	W 20040930

AB The invention relates to synergistic mixts. of two chloronicotinyln insecticides.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 56 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:367862 HCAPLUS Full-text

DOCUMENT NUMBER: 142:387628

TITLE: Synergistic insecticidal and acaricidal compositions comprising cyclic keto enols and tetronic acid derivatives

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Hungenberg, Heike; Brueck, Ernst; Kraus, Anton; Thiele, Wolfgang

PATENT ASSIGNEE(S): Bayer CropScience AG, Germany

SOURCE: Ger. Offen., 28 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

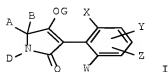
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

DE 10342673  
 PRIORITY APPLN. INFO.:  
 OTHER SOURCE(S):  
 GI

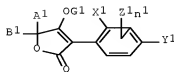
A1 20050428  
 MARPAT 142:387628

DE 2003-10342673  
 DE 2003-10342673

20030916  
 20030916



I



II

AB Synergistic insecticidal and acaricidal compns. comprise cyclic keto enols of the formula I [X = halo, (halo)alkyl, (halo)alkoxy or CN; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxyalkyl, (un)substituted cycloalkyl or heterocyclyl; B = H or alkyl; D = H, (un)substituted alkyl, alkenyl alkoxyalkyl cycloalkyl or heterocyclyl; ACND = heterocyclyl; G = C(:O)R1, C(:L)MR2, etc.; R1 = (halo)alkyl, (halo)alkenyl, (un)substituted Ph, etc.; R2 = (halo)alkyl, (halo)alkenyl, (halo)alkoxyalkyl, (un)substituted cycloalkyl; Ph, etc. L, M = O or S; ] and tetrionic acid derivs. II [X1 = halo, (halo)alkyl, alkoxy; Y1 = H or X1; Z1 = halo, alkyl or alkoxy; n1 = 0, 11-3; A1 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; B1 = H, alkyl or alkoxyalkyl; ALCB1 = ring; G1 = H, COR1', etc.; R1' = (halo)alkyl, (halo)alkenyl etc.].

L47 ANSWER 57 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:54984 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 142:129080

TITLE: Synergistic insecticidal and acaricidal combinations of cyclic keto-enols and phthalic acid diamides  
 Fischer, Reiner; Bretschneider, Thomas; Fischer, Ruediger; Funke, Christian; Thielert, Wolfgang

INVENTOR(S):

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

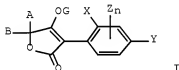
German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005004604	A1	20050120	WO 2004-EP6913	20040625
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

DE 10330723 A1 20050203 DE 2003-10330723 20030708  
 AU 2004255411 A1 20050120 AU 2004-255411 20040625  
 EP 1646283 A1 20060419 EP 2004-740322 20040625  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 BR 2004012357 A 20060905 BR 2004-12357 20040625  
 CN 1845672 A 20061011 CN 2004-80025391 20040625  
 IN 2005DN05942 A 20071123 IN 2005-DN5942 20051220  
 MX 2006PA00201 A 20060411 MX 2006-PA201 20060105  
 US 20070142463 A1 20070621 US 2006-563205 20060515  
 PRIORITY APPLN. INFO.: DE 2003-10330723 A 20030708  
 WO 2004-EP6913 W 20040625  
 OTHER SOURCE(S): MARPAT 142:129080  
 GI



AB Novel combinations of cyclic keto-enols (I, X = Br, C1-6 alkyl, C1-6 alkoxy, C1-3 haloalkyl; Y = H, halo, C1-6 alkyl, C1-6 alkoxy, C1-3 haloalkyl; Z = halo, C1-6 alkyl, C1-6 alkoxy; n = 0-3; A = H, (halo)alkyl, etc.; B = H, alkyl, alkoxyalkyl; A and B may form part of a (heterocyclic) ring; G = H, COR1, etc.; R1 = (halo) alkyl, alkenyl, etc.) and phthalic acid diamides (II, K = H, CN, (halo)alkyl, (halo)alkoxy; Re1, Re2, Re3 = independently H, CN, (halo)cycloalkyl, etc.; L1, L2, L3 = independently H, halo, CN, etc.) exhibit excellent insecticidal and acaricidal properties. Thus, spiromesifen 100 + N2-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo- N1-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-1,2- benzenedicarboxamide 0.16 ppm synergistically controlled Spodoptera frugiperda on cabbage.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 58 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:54983 HCAPLUS Full-text  
 DOCUMENT NUMBER: 142:129079  
 TITLE: Synergistic insecticidal and acaricidal mixtures of cyclic keto-enols and phthalic acid diamides  
 INVENTOR(S): Fischer, Reiner; Fischer, Ruediger; Funke, Christian; Thielert, Wolfgang  
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005004603	A1	20050120	WO 2004-EP6914	20040625
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10330724	A1	20050127	DE 2003-10330724	20030708
AU 2004255412	A1	20050120	AU 2004-255412	20040625
EP 1646281	A1	20060419	EP 2004-740323	20040625
EP 1646281	B1	20070523		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

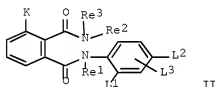
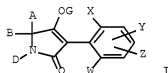
BR 2004011862	A	20060808	BR 2004-11862	20040625
CN 1819767	A	20060816	CN 2004-80019445	20040625
AT 362700	T	20070615	AT 2004-740323	20040625
ES 2286641	T3	20071201	ES 2004-740323	20040625
MX 2006PA00200	A	20060411	MX 2006-PA200	20060105
US 20070265266	A1	20071115	US 2007-563794	20070402

PRIORITY APPLN. INFO.:

DE 2003-10330724	A	20030708
WO 2004-EP6914	W	20040625

OTHER SOURCE(S): MARPAT 142:129079

GI



AB Combinations of cyclic keto-enols (I, X = halo, (halo)alkyl, (halo)alkoxy, or CN; W, Y, Z = H or X; A = H, (halo)alkyl, etc.; B = H or alkyl; D = H, (un)substituted alkyl, alkenyl, alkoxyalkyl, cycloalkyl, heterocyclyl; G = H, COR, etc.; R = (halo)alkyl, etc.; A and B or A and D may form part of a ring) and phthalic acid diamides (II, K = H, CN, (halo)alkyl, (halo)alkoxy; Re1, Re2, Re3 = independently H, CN, (halo)C3-8 cycloalkyl, etc.; L1, L2, L3 = independently H, halo, CN, etc.) exhibit excellent insecticidal and acaricide properties. Thus, Et 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-ylcarbonate + N2-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo-N1-[2-methyl-4-[1,2,2,2-tetrafluoro-1-

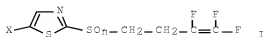
(trifluoromethyl)ethylphenyl]-1,2-benzenedicarboxamide (0.8 + 0.0064 ppm)  
synergistically controlled Plutella xylostella on cabbage.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 59 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2004:964974 HCAPLUS [Full-text](#)  
DOCUMENT NUMBER: 141:390414  
TITLE: Synergistic nematocidal, insecticidal and acaricidal  
compositions based on trifluorobutynyl derivatives  
INVENTOR(S): Kraus, Anton; Ishikawa, Koichi  
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany;  
Andersch, Wolfram  
SOURCE: PCT Int. Appl., 47 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004095930	A1	20041111	WO 2004-EP4167	20040420
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10319590	A1	20041118	DE 2003-10319590	20030502
AU 2004233566	A1	20041111	AU 2004-233566	20040420
CA 2524060	A1	20041111	CA 2004-2524060	20040420
EP 1622452	A1	20060208	EP 2004-728332	20040420
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
BR 2004010038	A	20060425	BR 2004-10038	20040420
CN 1812714	A	20060802	CN 2004-80018510	20040420
JP 2006525251	T	20061109	JP 2006-505199	20040420
IN 2005DN04944	A	20071102	IN 2005-DN4944	20051027
MX 2005PA11787	A	20060330	MX 2005-PA11787	20051101
US 20070155680	A1	20070705	US 2006-555105	20061212
PRIORITY APPLN. INFO.:			DE 2003-10319590	A 20030502
			WO 2004-EP4167	W 20040420

OTHER SOURCE(S): MARPAT 141:390414  
GI



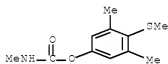
AB The title comps. comprise a trifluorobutylene derivative I (X = halo; n = 0, 1 or 2) and a known insecticide.

IT 2032-65-7D, Methiocarb, mixts. with trifluorobutynyl derivs. 2921-88-2D, Chlorpyrifos, mixts. with trifluorobutynyl derivs. 5598-13-0D, Chlorpyrifos-methyl, mixts. with trifluorobutynyl derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic nematocidal, insecticidal and acaricidal comps.)

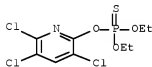
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



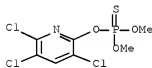
RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



RN 5598-13-0 HCAPLUS

CN Phosphorothioic acid, O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 60 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:964973 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:390413

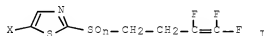
TITLE: Synergistic nematocidal, insecticidal, and fungicidal compositions comprising trifluorobutenyl derivatives

INVENTOR(S): Andersch, Wolfram; Wachendorff-Neumann, Ulrike; Kraus, Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 35 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004095929	A1	20041111	WO 2004-EP4165	20040420
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
IN 1999BO00854	A	20050318	IN 1999-BO854	19991125
DE 10319591	A1	20041118	DE 2003-10319591	20030502
AU 2004233565	A1	20041111	AU 2004-233565	20040420
CA 2524058	A1	20041111	CA 2004-2524058	20040420
EP 1622453	A1	20060208	EP 2004-728352	20040420
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
BR 2004010040	A	20060425	BR 2004-10040	20040420
CN 1812715	A	20060802	CN 2004-80018511	20040420
JP 2006525250	T	20061109	JP 2006-505198	20040420
IN 2005DN04941	A	20071012	IN 2005-DN4941	20051027
MX 2005PA11786	A	20060126	MX 2005-PA11786	20051101
US 20070155706	A1	20070705	US 2006-555106	20061228
PRIORITY APPLN. INFO.:			DE 2003-10319591	A 20030502
			WO 2004-EP4165	W 20040420

OTHER SOURCE(S): MARPAT 141:390413  
 GI



AB Disclosed are active substance combinations comprising trifluorobutenyl derivs. I (X = halo; n = 0,1 or 2) and previously known fungicides. The active substance combinations have a very good synergistic fungicidal, nematocidal, insecticidal, and/or acaricidal effect.

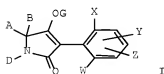
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 61 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2002:171603 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:212331



TITLE: Synergistic insecticidal and acaricidal mixtures  
 INVENTOR(S): Fischer, Feiner; Erdelen, Christoph  
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 70 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002017715	A1	20020307	WO 2001-EP9606	20010821
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10042736	A1	20020314	DE 2000-10042736	20000831
IN 2001MU00799	A	20050304	IN 2001-MU799	20010816
AU 2001091781	A	20020313	AU 2001-91781	20010821
EP 1322160	A1	20030702	EP 2001-971935	20010821
EP 1322160	B1	20050316		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001013580	A	20030715	BR 2001-13580	20010821
HU 2003002949	A2	20040128	HU 2003-2949	20010821
HU 2003002949	A3	20040628		
JP 2004507474	T	20040311	JP 2002-522700	20010821
AT 290784	T	20050415	AT 2001-971935	20010821
PT 1322160	T	20050729	PT 2001-971935	20010821
ES 2238480	T3	20050901	ES 2001-971935	20010821
RU 2275025	C2	20060427	RU 2003-108864	20010821
KR 825222	B1	20080425	KR 2003-702445	20030220
US 20040044066	A1	20040304	US 2003-362652	20030224
US 7060692	B2	20060613		
MX 2003PA01682	A	20030604	MX 2003-PA1682	20030225
ZA 2003001615	A	20040227	ZA 2003-1615	20030227
PRIORITY APPLN. INFO.:			DE 2000-10042736	A 20000831
			WO 2001-EP9606	W 20010821
OTHER SOURCE(S):	MARPAT 136:212331			
GI				

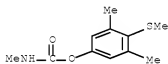


AB The title mixts. comprise cyclic ketoenoles I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxyalkyl, etc.; B = H or alkyl; D = H, (cyclo)alkyl, alkenyl, alkoxyalkyl, etc.; ACB and ACD = ring; G = H, CO<sub>2</sub>Et, iso-PrCO, etc.] and any of 43 known insecticides and acaricides.

IT 2032-65-7D, Methiocarb, mixts. with cyclic ketoenoles  
2921-88-2D, Chlorpyrifos, mixts. with cyclic ketoenoles  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticides and acaricides)

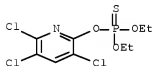
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 62 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:730499 HCAPLUS Full-text

DOCUMENT NUMBER: 135:268768

TITLE: Synergistic insecticidal and acaricidal compositions containing dihydrofuranone derivatives

INVENTOR(S): Fischer, Reiner; Erdelen, Christoph; Bretschneider, Thomas

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 49 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

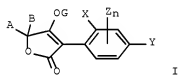
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072125	A2	20011004	WO 2001-EP2977	20010315
WO 2001072125	A3	20020228		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,

HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,  
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
 VN, YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,  
 KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,  
 IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,  
 GW, ML, MR, NE, SN, TD, TG

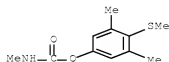
DE 10015310	A1	20011004	DE 2000-10015310	20000328
IN 2001MU00241	A	20050304	IN 2001-MU241	20010313
EP 1267619	A2	20030102	EP 2001-915355	20010315
EP 1267619	B1	20041020		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1419412	A	20030521	CN 2001-807203	20010315
BR 2001009541	A	20030610	BR 2001-9541	20010315
HU 2003001516	A2	20030828	HU 2003-1516	20010315
JP 2003528116	T	20030924	JP 2001-570094	20010315
AT 279861	T	20041115	AT 2001-915355	20010315
PT 1267619	T	20050331	PT 2001-915355	20010315
CN 1853469	A	20061101	CN 2006-10084721	20010315
TW 241887	B	20051021	TW 2001-90106531	20010321
EG 23185	A	20040731	EG 2001-302	20010327
ZA 2002006765	A	20030825	ZA 2002-6765	20020823
US 20030100604	A1	20030529	US 2002-239332	20020920
US 6900190	B2	20050531		
MX 2002PA09530	A	20030514	MX 2002-PA9530	20020927
US 20050147639	A1	20050707	US 2005-74156	20050307
PRIORITY APPLN. INFO.:			DE 2000-10015310	A 20000328
			CN 2001-807203	A3 20010315
			WO 2001-EP2977	W 20010315
			US 2002-239332	A3 20020920

OTHER SOURCE(S): MARPAT 135:268768  
 GI



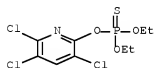
- AB The title compns. comprise a dihydrofuranone derivative I [X = halo, (halo)alkyl or alkoxy; Y = H or X; Z = halo, alkyl or alkoxy; n = 0, 1-3; A = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; B = H, alkyl or alkoxyalkyl; ACB = (un)substituted ring; G = H, COR1, CO2R2, etc.; R1 = (halo)alkyl, (halo)alkenyl, (un)substituted Ph, etc.; R2 = (halo)alkyl, (halo)alkenyl, (un)substituted Ph or benzyl, etc.] and any of 43 known insecticides.
- IT 2932-65-7D, Metbiocarb, mixts. with dihydrofuranone derivs. 2921-68-2D, Chlorpyrifos, mixts. with dihydrofuranone derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic insecticidal and acaricidal compns.)
- RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



RN 2921-88-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (CA INDEX NAME)



L47 ANSWER 63 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:359738 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:362766

TITLE: Synergistic insecticidal and acaricidal compositions

INVENTOR(S): Brueck, Ernst; Erdelen, Christoph; Fischer, Reiner

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

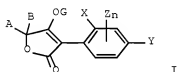
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

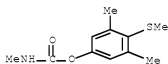
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001033966	A2	20010517	WO 2000-EP10620	20001027
WO 2001033966	A3	20011101		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IN 2000MU00921	A	20050304	IN 2000-MU921	20001012
BR 2000015453	A	20020709	BR 2000-15453	20001027
EP 1229791	A2	20020814	EP 2000-974473	20001027
EP 1229791	B1	20040121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003513892	T	20030415	JP 2001-535987	20001027

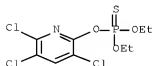
ES 2210011	T3 20040701	ES 2000-974473	20001027
TW 241886	B 20051021	TW 2000-89123327	20001106
US 6576661	B1 20030610	US 2002-129589	20020507
US 20040023930	A1 20040205	US 2003-412492	20030411
US 6818670	B2 20041116		
PRIORITY APPLN. INFO.:		DE 1999-19953775	A 19991109
		WO 2000-EP10620	W 20001027
		US 2002-129589	A3 20020507
OTHER SOURCE(S):	MARPAT 134:362766		
GI			



- AB The title compns. comprise cyclic ketoenols I [X = halo, (halo)alkyl or alkoxy; Y = H or X; Z = alkyl, halo or alkoxy; n = 0-3; A, B = H (halo)alkyl, (halo)alkenyl, etc.; ACB = ring; G = H, COR1, CO2R2, etc.; R1, R2 = (halo)alkyl, (halo)alkenyl, etc.] and any of 95 known insecticides.
- IT 2032-65-7D, Methiocarb, mixts. with cyclic ketoenols  
2921-88-2D, Chlorpyrifos, mixts. with cyclic ketoenols  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticidal and acaricidal compns.)
- RN 2032-65-7 HCAPLUS
- CN Phenol, 3,5-dimethyl-4-(methylthio)-, 1-(N-methylcarbamate) (CA INDEX NAME)



- RN 2921-88-2 HCAPLUS
- CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester  
(CA INDEX NAME)



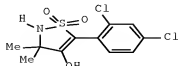
L47 ANSWER 64 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2000:841886 HCAPLUS Full-text  
 DOCUMENT NUMBER: 134:4932  
 TITLE: Preparation of 1,1-dioxoisothiazolinols and -amines  
 and analogs as agrochemical fungicides, herbicides,  
 and pesticides  
 INVENTOR(S): Fischer, Reiner; Kretschik, Oliver; Schenke, Thomas;  
 Schenkel, Ralf-ingo; Wiedemann, Juergen; Erdelen,  
 Christoph; Loesel, Peter; Drewes, Mark Wilhelm;  
 Feucht, Dieter; Andersch, Wolfram  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 82 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19924668	A1	20001130	DE 1999-19924668	19990528
IN 2000MU00427	A	20050304	IN 2000-MU427	20000509
WO 2000073289	A1	20001207	WO 2000-EP4415	20000516
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
BR 2000011004	A	20020219	BR 2000-11004	20000516
EP 1185518	A1	20020313	EP 2000-935038	20000516
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2003500481	T	20030107	JP 2000-621355	20000516
AT 311374	T	20051215	AT 2000-935038	20000516
ES 2254179	T3	20060616	ES 2000-935038	20000516
US 6670385	B1	20031230	US 2001-979734	20011126
US 20040063669	A1	20040401	US 2003-461055	20030613
US 6849744	B2	20050201		
PRIORITY APPLN. INFO.:			DE 1999-19924668	A 19990528
			WO 2000-EP4415	W 20000516
			US 2001-979734	A3 20011126

OTHER SOURCE(S): MARPAT 134:4932  
 GI



I



II

AB Title compds. [I; R = (un)substituted Ph; R1 = OH, NH2, alkoxy, acyloxy, etc.; Z = SO or SO2; Z1 = (un)substituted NHCH2, -OCH2, -CH2CH2, -NHNH, etc.] were prepared. Thus, H2NCMe2CO2Me was N-acylated by 2,4-Cl2C6H3CH2SO2Cl and the product cyclized to give title compound II. Data for biol. activity of I were given.

L47 ANSWER 65 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:260262 HCAPLUS Full-text

DOCUMENT NUMBER: 132:279112

TITLE: Preparation of 4-hydroxy-3-phenylpyrones as pesticides, fungicides, and herbicides.

INVENTOR(S): Lieb, Folker; Fischer, Feiner; Graff, Alan; Schneider, Udo; Ruther, Michael; Erdelen, Christoph; Andersch, Wolfram; Wachendorff-Neumann, Ulrike; Hanssler, Gerd; Mauler-Machnik, Astrid; Stenzel, Klaus

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

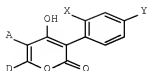
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021946	A1	20000420	WO 1999-EP7113	19990924
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19846517	A1	20000420	DE 1998-19846517	19981009
AU 9963292	A	20000501	AU 1999-63292	19990924
AU 750249	B2	20020711		
EP 1119559	A1	20010801	EP 1999-950547	19990924
EP 1119559	B1	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915917	A	20010821	BR 1999-15917	19990924
JP 2002527429	T	20020827	JP 2000-575852	19990924
AT 255097	T	20031215	AT 1999-950547	19990924
ES 2209514	T3	20040616	ES 1999-950547	19990924
MX 2001PA03564	A	20010731	MX 2001-PA3564	20010406
US 6441030	B1	20020827	US 2001-807135	20010406
PRIORITY APPLN. INFO.:			DE 1998-19846517	A 19981009
			WO 1999-EP7113	W 19990924

OTHER SOURCE(S): MARPAT 132:279112

GI



I

AB Title compds. [I; X = alkyl, Y = halo, or X = halo, Y = alkyl; A = H, alkyl, (substituted) aryl; D = H, alkyl, (substituted) cycloalkyl, aryl, heterocyclyl, CH<sub>2</sub>O<sub>2</sub>CR; R = (substituted) Ph; AD = atoms to form a (substituted) carbocyclyl; with 2 specific exceptions], were prepared. Thus, (chlorocarbonyl)-2-(2-methyl-4-chlorophenyl)ketene and Et pyrid-2-yl ketone were refluxed 8 h in PhMe to give 51% 3-(2-methyl-4-chlorophenyl)-4-hydroxy-5-methyl-6-(pyrid-2-yl)pyrone. The latter at 0.1% gave >90% control of Myzus persicae on cabbage.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 66 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:708738 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 131:310546

TITLE: Arylphenyl-substituted cyclic keto enols as insecticides and acaricides

INVENTOR(S): Lieb, Folker; Fischer, Reiner; Graff, Alan; Schneider, Udo; Bretschneider, Thomas; Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo; Feucht, Dieter; Pontzen, Rolf; Myers, Randy Allen

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 245 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955673	A1	19991104	WO 1999-EP2488	19990414
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19818732	A1	19991028	DE 1998-19818732	19980427
AU 9934215	A	19991116	AU 1999-34215	19990414
BR 9910034	A	20001226	BR 1999-10034	19990414
EP 1075465	A1	20010214	EP 1999-915759	19990414
R: FR				
JP 2002513002	T	20020508	JP 2000-545833	19990414
US 6451843	B1	20020917	US 2001-673907	20010102
US 20030096806	A1	20030522	US 2002-192361	20020710



PRIORITY APPLN. INFO.:

DE 1998-19818732

A 19980427

WO 1999-EP2488

W 19990414

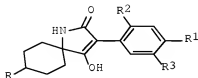
US 2001-673907

A3 20010102

OTHER SOURCE(S):

MARPAT 131:310546

GI



I

AB Title compds. were prepared for use as insecticides and acaricides. Thus, pyrrolinone I [R = Me, R1 = 4-ClC6H4, R2 = Me, R3 = Cl] was prepared by treating I [R1 = Br] with 4-ClC6H4B(OH)2. I [R = OEt, R1 = 4-ClC6H4, R2 = Cl, R3 = Me] at 1% gave 90% kill of *Phaedon cochleariae* and at 0.1% gave 95% kill of *Tetranychus urticae*.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 67 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:626173 HCAPLUS Full-text

DOCUMENT NUMBER: 131:243180

TITLE: Preparation of arylketoenols as pesticides and herbicides.

INVENTOR(S): Lieb, Folker; Fischer, Reiner; Graff, Alan; Schneider, Udo; Bretschneider, Thomas; Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo; Myers, Randy Allen

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 267 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9948869	A1	19990930	WO 1999-EP1787	19990318
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19813354	A1	19990930	DE 1998-19813354	19980326
CA 2325526	A1	19990930	CA 1999-2325526	19990318
AU 9934147	A	19991018	AU 1999-34147	19990318
AU 751256	B2	20020808		
BR 9909143	A	20001205	BR 1999-9143	19990318

TR 200002752	T2	20001221	TR 2000-2752	19990318
EP 1066258	A1	20010110	EP 1999-915653	19990318
EP 1066258	B1	20051214		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
JP 2002507599	T	20020312	JP 2000-537852	19990318
CN 1590372	A	20050309	CN 2004-10055755	19990318
CN 1600772	A	20050330	CN 2003-2003160372	19990318
AT 312818	T	20051215	AT 1999-915653	19990318
ES 2252940	T3	20060516	ES 1999-915653	19990318
IN 1999DE00620	A	20070119	IN 1999-DE620	19990421
MX 2000PA09359	A	20010419	MX 2000-PA9359	20000925
US 6458965	B1	20021001	US 2001-646722	20010102
US 20030073851	A1	20030417	US 2002-142325	20020509
US 6693092	B2	20040217		
US 20040127365	A1	20040701	US 2003-730556	20031208
US 6806264	B2	20041019		

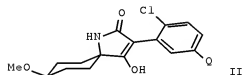
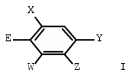
## PRIORITY APPLN. INFO.:

DE 1998-19813354	A	19980326
CN 1999-806593	A3	19990318
WO 1999-EP1787	W	19990318
US 2001-646722	A3	20010102
US 2002-142325	A3	20020509

## OTHER SOURCE(S):

MARPAT 131:243180

GI



AB Title compds. [I; X = halo, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulfanyl, alkylsulfonyl, haloalkyl, haloalkoxy, haloalkenyloxy, NO<sub>2</sub>, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio; Z = (substituted) cycloalkyl, aryl, heteroaryl; W, Z = H, halo, alkyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO<sub>2</sub>, cyano; E = specified (substituted) dioxopyrrolyl, dioxofuryl, dioxothienyl, dioxopyrazolyl, dioxopyranlyl, dioxocyclopentyl, etc., residues], were prepared. Thus, II (Q = Br) was stirred with 4-trifluoromethoxyphenylboronic acid, Pd(PPh<sub>3</sub>)<sub>4</sub>, and Na<sub>2</sub>CO<sub>3</sub> in dimethoxyethane/H<sub>2</sub>O at 80° to give II (Q = 4-C<sub>6</sub>H<sub>4</sub>OCF<sub>3</sub>). I at 0.1% gave 95-100% kill of *Myzus persicae* on cabbage leaves.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 68 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:566021 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 131:199616

TITLE: Preparation of cyclic ketoenols as herbicides and pesticides

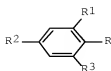
INVENTOR(S): Lieb, Folker; Fischer,ainer; Graff, Alan; Schneider, Udo; Bretschneider, Thomas; Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark-Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo; Myers, Randy Allen

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 264 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943649	A1	19990902	WO 1999-EP1029	19990217
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19808261	A1	19991028	DE 1998-19808261	19980227
CA 2322158	A1	19990902	CA 1999-2322158	19990217
AU 9925231	A	19990915	AU 1999-25231	19990217
AU 749786	B2	20020704		
BR 9909243	A	20001114	BR 1999-9243	19990217
EP 1056717	A1	20001206	EP 1999-904881	19990217
EP 1056717	B1	20050720		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
JP 2002504538	T	20020212	JP 2000-533407	19990217
AT 299864	T	20050815	AT 1999-904881	19990217
ES 2244174	T3	20051201	ES 1999-904881	19990217
ZA 9901568	A	19990827	ZA 1999-1568	19990226
TW 244480	B	20051201	TW 1999-88102895	19990226
IN 1999DE00619	A	20070223	IN 1999-DE619	19990421
MX 2000PA08293	A	20000827	MX 2000-PA8293	20000824
US 6417370	B1	20020709	US 2000-623016	20001023
US 20020188136	A1	20021212	US 2002-137763	20020502
US 6716832	B2	20040406		
US 20040167031	A1	20040826	US 2004-777528	20040212
US 7105471	B2	20060912		
US 20060122061	A1	20060608	US 2006-330601	20060112
US 7288676	B2	20071030		
US 20080081807	A1	20080403	US 2007-901471	20070917
PRIORITY APPLN. INFO.:			DE 1998-19808261	A 19980227
			WO 1999-EP1029	W 19990217
			US 2000-623016	A3 20001023
			US 2002-137763	A3 20020502
			US 2004-777528	A3 20040212
			US 2006-330601	A3 20060112

OTHER SOURCE(S): MARPAT 131:199616  
 GI



I



II

AB Title compds. [I; R = enolic oxo(hetero)cyclic group, e.g., oxopyrrolinyl group II; A = H, (halo)alk(en)yl, (hetero)aryl, etc.; B = H or (alkoxy)alkyl; AB = atoms to complete a ring; D = H, alk(en)yl, (hetero)aryl, etc.; AD = atoms to complete a ring; G = H or acyl; R1 = halo, alkyl, alkoxy, phenyl(oxy), etc.; R2 = (un)substituted cycloalkyl or -(hetero)aryl; R3 = H, halo, alkyl, alkoxy, etc.] were prepared. Thus, I (R = group II, A = CHMe2, B = R1 = Me, D = G = H, R2 = Et) (III; R2 = Br) was condensed with 4-ClC6H4(OH)2 to give III (R2 = C6H4Cl-4). Data for biol. activity of I were given.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 69 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:317249 HCAPLUS Full-text

DOCUMENT NUMBER: 130:338027

TITLE: Preparation of 3,5-dioxo-4-phenylspiro[3-pyrroline-2,4'-tetrahydropyran] enols as herbicides and pesticides

INVENTOR(S): Hagemann, Hermann; Fischer, Reiner; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Schneider, Udo; Andersch, Wolfram

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 50 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

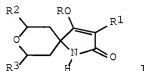
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19749720	A1	19990512	DE 1997-19749720	19971111
WO 9924437	A1	19990520	WO 1998-EP6866	19981029
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9913371	A	19990531	AU 1999-13371	19981029
EP 1028963	A1	20000823	EP 1998-956894	19981029
EP 1028963	B1	20050615		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
JP 2002516819	T	20020611	JP 2000-520447	19981029
CN 1115344	B	20030723	CN 1998-812993	19981029
EP 1508560	A2	20050223	EP 2004-28198	19981029
EP 1508560	A3	20050316		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
AT 297932	T	20050715	AT 1998-956894	19981029
ES 2244097	T3	20051201	ES 1998-956894	19981029
ZA 9810249	A	19990517	ZA 1998-10249	19981110
US 6608211	B1	20030819	US 2000-530883	20000508
US 20030228984	A1	20031211	US 2003-404723	20030401
US 6670488	B2	20031230		
US 20040102327	A1	20040527	US 2003-701820	20031105

US 6900341 B2 20050531  
 US 20050187111 A1 20050825 US 2005-103107 20050411  
 US 7109370 B2 20060919

PRIORITY APPLN. INFO.: DE 1997-19749720 A 19971111  
 EP 1998-956894 A3 19981029  
 WO 1998-EP6866 W 19981029  
 US 2000-530883 A3 20000508  
 US 2003-404723 A3 20030401  
 US 2003-701820 A3 20031105

OTHER SOURCE(S): MARPAT 130:338027  
 GI



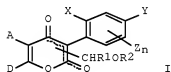
AB Title compds. [I; R = H, alkanoyl, Bz, acyl, etc.; R1 = (un)substituted Ph; R2 = alkyl or (un)substituted Ph; R3 = H or alkyl] were prepared. Thus, ClCH2CH2COCl was condensed with CH2:CHMe and the product cyclized to give 2-methyl-4-tetrahydropyranone which was treated with (NH4)2CO3 and the product hydrolyzed to give 4-amino-2-methyltetrahydropyran-4-carboxylic acid. The latter was esterified and the product amidated by mesitylacetyl chloride to give, after Dieckmann condensation, I (R = R3 = H, R1 = mesityl, R2 = Me). Data for biol. activity of I were given.

L47 ANSWER 70 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1997:473590 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 127:81357  
 TITLE: Preparation of 3-arylpyrone derivatives as pesticides.  
 INVENTOR(S): Bretschneider, Thomas; Fischer, Reiner; Lieb, Folker; Hagemann, Hermann; Ruther, Michael; Stetter, Joerg; Andersch, Wolfram; Erdelen, Christoph; Haensler, Gerd; Mencke, Norbert; Stenzel, Klaus; Turberg, Andreas; Wachendorff-Neumann, Ulrike  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 26 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544457	A1	19970605	DE 1995-19544457	19951129
WO 9719941	A1	19970605	WO 1996-EP5058	19961118
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, IL, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9676265	A	19970619	AU 1996-76265	19961118

EP 865438	A1	19980923	EP 1996-939080	19961118
EP 865438	B1	20011017		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1207737	A	19990210	CN 1996-199730	19961118
BR 9611834	A	19990309	BR 1996-11834	19961118
JP 2000500767	T	20000125	JP 1997-520129	19961118
ES 2166008	T3	20020401	ES 1996-939080	19961118
IN 184979	A1	20001014	IN 1996-DE2541	19961119
ZA 9609990	A	19970708	ZA 1996-9990	19961128
US 6071937	A	20000606	US 1998-77237	19980522
IN 2000DE00312	A	20050311	IN 2000-DE312	20000323
US 6576771	B1	20030610	US 2000-537144	20000329
PRIORITY APPLN. INFO.:			DE 1995-19544457	A 19951129
			WO 1996-EP5058	W 19961118
			IN 1996-DE2541	A3 19961119
			US 1998-77237	A3 19980522

OTHER SOURCE(S): MARPAT 127:81357  
GI



AB Title compds. [I; X = halo, NO<sub>2</sub>, cyano, alkyl, alkenyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy, (substituted) Ph, PhO, PhS, PhCH<sub>2</sub>O, PhCH<sub>2</sub>S; Y = H, halo, NO<sub>2</sub>, alkyl, alkenyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy; Z = halo, NO<sub>2</sub>, cyano, alkyl, alkenyl, alkoxy, alkenyloxy, haloalkyl, haloalkenyl, haloalkoxy, haloalkenyloxy; n = 0-2; A = H, halo, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaralkyl, heteroaryl, cyano, acyl; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, (unsat.) cycloalkyl, heterocyclyl, aralkyl, aryl, heteroaralkyl, heteroaryl; AD = (substituted) (heteroatom-interrupted) alkylene, alkenylene; R<sub>1</sub> = H, (halo)alkyl; R<sub>2</sub> = (halo)alkyl, (halo)alkenyl, (halo)alkynyl, were prepared Thus, 4-hydroxy-5-methyl-6-(2-pyridyl)-3-(2,4,6-trimethylphenyl)-2-pyrone, Et<sub>3</sub>N, and propargyl chloromethyl ether were stirred in EtOAc to give 82% 5-methyl-6-(2-pyridyl)-4-propargyloxymethoxy-3-(2,4,6-trimethylphenyl)-2-pyrone. Several I at 0.01% gave a 100% kill of *Phaedon cochleariae* on cabbage leaves.

L47 ANSWER 71 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:151521 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 126:157396

TITLE: Preparation of 3-phenylheterocycloalkyl-2,4-dione enols as pesticides and herbicides

INVENTOR(S): Liebig, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dollinger, Markus; Santell, Hans-Joachim; Graff, Alan; Andersch, Wolfram

US 10/581346

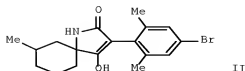
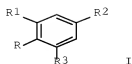
PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 135 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19603332	A1	19970102	DE 1996-19603332	19960131
CA 2225830	A1	19970123	CA 1996-2225830	19960617
CA 2225830	C	20080108		
CA 2532743	A1	19970123	CA 1996-2532743	19960617
WO 9702243	A1	19970123	WO 1996-EP2601	19960617
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9663561	A	19970205	AU 1996-63561	19960617
AU 707357	B2	19990708		
EP 835243	A1	19980415	EP 1996-922817	19960617
EP 835243	B1	20030129		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL				
CN 1193960	A	19980923	CN 1996-196456	19960617
HU 9802279	A2	19990128	HU 1998-2279	19960617
HU 9802279	A3	20010528		
BR 9609301	A	19990525	BR 1996-9301	19960617
JP 11510481	T	19990914	JP 1996-504750	19960617
ES 2189877	T3	20030716	ES 1996-922817	19960617
IN 1996DE01384	A	20050701	IN 1996-DE1384	19960624
ZA 9605516	A	19970206	ZA 1996-5516	19960628
TW 410141	B	200001101	TW 1996-85107798	19960628
US 5994274	A	19991130	US 1997-981610	19971223
US 6251830	B1	20010626	US 1999-360510	19990726
US 20020022575	A1	20020221	US 2001-839481	20010420
US 6469196	B2	20021022		
CN 1362397	A	20020807	CN 2001-138493	20011114
US 20030144504	A1	20030731	US 2002-197720	20020718
US 6759548	B2	20040706		

PRIORITY APPLN. INFO.:

DE 1995-19523850	A1	19950630
DE 1996-19603332	A	19960131
CA 1996-2225830	A3	19960617
WO 1996-EP2601	W	19960617
US 1997-981610	A3	19971223
US 1999-360510	A3	19990726
US 2001-839481	A3	20010420

OTHER SOURCE(S): MARPAT 126:157396  
 GI



AB Title compds. [I; R = 4-(O-acyl)hydroxy-2-oxo-3-pyrrolidin-2-yl, -2,5-dihydro-3-furyl, -2,5-dihydro-3-thienyl, etc.; R1 = alkyl; R2,R3 = halo or alkyl] were prepared. Thus, 4,2,6-BrMe2C6H2CH2CO2H was amidated by Me 1-amino-3-methylcyclohexanecarboxylate and the product cyclized to give title compound II. Data for biol. activity of I were given.

L47 ANSWER 72 OF 72 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:479268 HCAPLUS Full-text

DOCUMENT NUMBER: 125:142528

TITLE: Preparation of alkanoyloxyfuranones as pesticides

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Beck, Gunther; Hagemann, Hermann; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Andersch, Wolfram; Mencke, Norbert; Turbert, Andreas

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 53 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

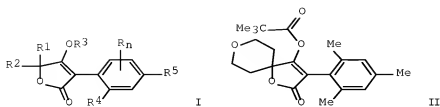
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19540736	A1	19960627	DE 1995-19540736	19951102
CA 2208375	A1	19960704	CA 1995-2208375	19951211
WO 9620196	A1	19960704	WO 1995-EP4869	19951211
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9643420	A	19960719	AU 1996-43420	19951211
EP 799228	A1	19971008	EP 1995-942100	19951211
EP 799228	B1	20030319		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT				
BR 9510256	A	19971104	BR 1995-10256	19951211
CN 1175257	A	19980304	CN 1995-197629	19951211
CN 1079798	B	20020227		
HU 77880	A2	19980928	HU 1998-1213	19951211
JP 10511366	T	19981104	JP 1995-520148	19951211
ES 2190790	T3	20030816	ES 1995-942100	19951211
ZA 9510888	A	19960624	ZA 1995-10888	19951221
US 5830825	A	19981103	US 1997-860106	19970617
US 6051723	A	20000418	US 1998-133522	19980813
PRIORITY APPLN. INFO.:			DE 1994-4446335	A1 19941223
			DE 1995-19540736	A 19951102
			WO 1995-EP4869	W 19951211
OTHER SOURCE(S):			CASREACT 125:142528; MARPAT 125:142528	



GI



AB Title compds. (I; R,R4,R5 = halo, alkyl, alkoxy; R1R2 = atoms to form a heterocyclic ring; R3 = H, alkanoyl, alkylsulfonyl, alkoxycarbonyl, etc.; n = 0-3) were prepared. Thus, Et 4-hydroxytetrahydropyran-4-carboxylate was esterified by mesitylacetyl chloride and the product cyclized to give, after Me3CCOCl esterification, title compound II which gave  $\geq 95\%$  kill of *Myzus persicae* at 0.1%.

=&gt; d his ful

```

FILE 'REGISTRY' ENTERED AT 17:06:18 ON 14 MAY 2008
L1      STR
L2      705 SEA SSS FUL L1
L5      105 SEA ABB=ON PLU=ON CHLORPYRIFOS/BI
L6      14 SEA ABB=ON PLU=ON METHOCARB/BI

FILE 'HCAPLUS' ENTERED AT 17:09:39 ON 14 MAY 2008
L8      11745 SEA ABB=ON PLU=ON L5 OR ?CHLORPYRIF?
L9      1404 SEA ABB=ON PLU=ON L6 OR ?METHOCARB?

FILE 'REGISTRY' ENTERED AT 17:12:57 ON 14 MAY 2008
L20     STR
L21     170 SEA SUB=L2 SSS FUL L20

FILE 'HCAPLUS' ENTERED AT 17:26:47 ON 14 MAY 2008
L22     164 SEA ABB=ON PLU=ON L21
L23     8 SEA ABB=ON PLU=ON L22 AND L8 AND L9
        D STAT QUE L23
        D IBIB ABS HITSTR L23 1-8
L24     16 SEA ABB=ON PLU=ON (L22 AND (L8 OR L9)) NOT L23
        D STAT QUE L24
        D IBIB ABS HITSTR L24 1-16

FILE 'REGISTRY' ENTERED AT 17:27:58 ON 14 MAY 2008
L25     535 SEA ABB=ON PLU=ON L2 NOT L21

FILE 'HCAPLUS' ENTERED AT 17:28:12 ON 14 MAY 2008
L26     30 SEA ABB=ON PLU=ON L25
L28     1 SEA ABB=ON PLU=ON (L26 AND (L8 OR L9)) NOT (L23 OR L24)
        D STAT QUE L28
        D IBIB ABS HITSTR L28 1
L29     77 SEA ABB=ON PLU=ON ("FUNKE C"/AU OR "FUNKE C W"/AU) OR "FUNKE
        CHRISTIAN"/AU
L30     1494 SEA ABB=ON PLU=ON "FISCHER REINER"/AU OR FISCHER R/AU OR
        FISCHER R ?/AU
L31     1270 SEA ABB=ON PLU=ON "FISCHER RUDIGER"/AU OR FISCHER R/AU OR
        FISCHER R ?/AU
L32     73 SEA ABB=ON PLU=ON ("HUNGENBERG H"/AU OR "HUNGENBERG HEIKE"/AU
        )
L33     103 SEA ABB=ON PLU=ON "ANDERSCH W"/AU OR "ANDERSCH WOLFRAM"/AU
L34     80 SEA ABB=ON PLU=ON "THIELERT W"/AU OR "THIELERT WOLFGANG"/AU
L35     304 SEA ABB=ON PLU=ON ("KRAUS ANTON"/AU OR "KRAUS ANTON DIPL
        ING"/AU) OR KRAUS A/AU OR KRAUS A ?/AU
L36     23 SEA ABB=ON PLU=ON L29 AND ((L30 OR L31) OR L33 OR L34 OR
        L35)
L37     35 SEA ABB=ON PLU=ON (L30 OR L31) AND (L33 OR L34 OR L35)
L38     32 SEA ABB=ON PLU=ON L33 AND (L34 OR L35)
L40     11 SEA ABB=ON PLU=ON (L29 OR L30 OR L32 OR L33 OR L34 OR L35)
        AND (L22 OR L26)
L44     342 SEA ABB=ON PLU=ON L8 AND L9
L45     9 SEA ABB=ON PLU=ON (L29 OR L30 OR L32 OR L33 OR L34 OR L35)
        AND L44
L47     72 SEA ABB=ON PLU=ON (L36 OR L37 OR L38 OR L38 OR L40 OR L45)
        NOT (L23 OR L24 OR L28)
        D STAT QUE L47
        D IBIB ABS HITSTR L47 1-72

```

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2008 HIGHEST RN 1020702-70-8  
DICTIONARY FILE UPDATES: 13 MAY 2008 HIGHEST RN 1020702-70-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

FILE HCAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 14 May 2008 VOL 148 ISS 20  
FILE LAST UPDATED: 13 May 2008 (20080513/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>